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U.S. NAVAL WEATHER SERVICE COMMAND. SUMMARY OF SYNOPTIC METEOROLOGICAL OBSERVATIONS, NORTH AMERICAN COASTAL MARINE AREAS - REVISED. PACIFIC COAST. VOLUME 5. AREA 30 - BAJA, AREA 31 - SAN DIEGO 200 SW, AREA 32 - SAN DIEGO, AREA 33 - SANTA ROSA ISLAND SW, AREA 34 - POINT MUGU NW, AREA 35 - SAN FRANCISCO

National Climatic Center
Asheville, North Carolina

May 1976

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20. ABSTRACT (Continue on reverse side if necessary and identify by block number)

This report presents marine climatological data for specific coastal areas in 21 different tables including weather occurrence, wind direction and speed, cloud amount, ceiling height, visibility, precipitation, dry bulb, relative humidity, air-sea temperature difference, sea height and period, sea surface temperature and sea level pressure.

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U. S. NAVAL WEATHER SERVICE COMMAND

SUMMARY OF SYNOPTIC METEOROLOGICAL OBSERVATIONS

NORTH AMERICAN COASTAL MARINE AREAS - REVISED

PACIFIC COAST

VOLUME 5

AREA 30 - BAJA
AREA 31 - SAN DIEGO 200 SW
AREA 32 - SAN DIEGO
AREA 33 - SANTA ROSA ISLAND SW
AREA 34 - POINT MUGU NW
AREA 35 - SAN FRANCISCO

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Prepared under the direction of the U.S. Naval Weather Service Command
by the National Climatic Center, Federal Building, Asheville, N.C. 28801.

SUMMARY OF SYNOPTIC METEOROLOGICAL OBSERVATIONS (MONTHLY AND ANNUAL)

The data contained in these tables were obtained from tape data Family 11 (TDF-11), Marine Surface observations. TDF-11 was primarily funded by the Naval Weather Service Command and selected by NWSD Asheville as the most comprehensive collection of marine surface observations from which to develop a series of coastal marine summaries. The source was punched cards of weather observations taken aboard vessels of varying registry. They were recorded on magnetic tape in a common format. Elements not in WMO code were converted to this code where possible. Where this was not possible, the original data were retained within the tape record as supplemental data. A very limited quality control was attempted as the punched cards were converted to taped records and, where possible, missing psychrometric data were computed.

Before the tables are prepared, extreme values of selected parameters are scrutinized so that obvious errors can be excluded. This method is necessarily subjective since the only available record of many observations is the punched card from which the tape records were prepared. Frequently there is no concrete evidence to prove or disprove the validity of questionable data.

Also, it should be noted that these data are based upon observations made by ships in passage. Such ships tend to avoid bad weather when possible, thus biasing our data toward good weather samples.

Because the number of observations may vary from one table to the other, no absolute relationship exists between the tables. As an example, air temperature counts for Tables 13 and 17 may not be identical since only observations containing both air temperature and relative humidity were counted in Table 13 and only those with both temperature and air-sea temperature difference were counted in Table 17. No requirement for simultaneous recording of all elements was made.

The primary period of record is that period (extending back in time from the most recent data) during which eighty percent of the total number of observations were recorded. The overall period is the earliest to the latest observed data used in compiling the tables. Tables 18 and 19 were tabulated from selected decks only and the overall period indicates the period of record of this data source. The primary period for these tables is not shown.

THE TABLES

Percentage frequencies are computed to hundredths and rounded to tenths. An asterisk (*) indicates percentage frequency > 0 and $< .05$. A value followed by a plus sign indicates greater than or equal to that value (8+ means 8 or greater). NH = low cloud amount (or middle cloud amount when low clouds are not present). The hours given in this publication are GMT.

The geographic position shown on the tables is the central position (centroid) of the observations within the area. This value may fall outside irregular areas.

Annual values are computed on the basis of the sum of the monthlies divided by the number of months.

Tables 1 through 19 appear in numerical order for each month, with the annual tables appearing after the tables for December. Tables 20 and 21 appear at the end of the entire series, after the annual summary for Table 19. The series of summaries appear in numerical order by area number.

Table 1 - Percentage Frequency of Weather Occurrence by Wind Direction (8 pts.).

Table 2 - Percentage Frequency of Weather Occurrence by Hour (GMT).

Table 3 - Percentage Frequency of Wind Direction (8 pts.) by Speed and by Hour (GMT). This table includes mean wind speed (kts.) by direction (8 pts.).

Table 3A - Percentage Frequency of Wind Direction (8 pts.) by Speed and by Hour (GMT). This table includes mean wind speed (kts.) by direction.

Table 4 - Percentage Frequency of Wind Speed by Hour (GMT). This table includes mean speed by hour.

Table 5 - Percentage Frequency of Total Cloud Amount (Oktas) by Wind Direction (8 pts.). This table includes mean cloud amount by wind direction.

Table 6 - Percentage Frequency of Ceiling Heights (feet, NH > 4/8) and Occurrence of NH <5/8 by Wind Direction (8 pts.).

Table 7 - Cumulative Percentage Frequency of Occurrence of Ceiling Height (feet, NH > 4/8) and Visibility (Nautical Miles).

Table 7A - Percentage Frequency of Low Cloud Amount (or Middle Cloud Amount if Low Clouds are not present). and Percentage Frequency of Sky Obscured. Amounts are in Oktas.

Table 8 - Percentage Frequency of Wind Direction (8 pts.) vs. Occurrence or Non-Occurrence of Precipitation at Observation Time with Varying Values of Visibility (Nautical Miles).

Table 9 - Percentage Frequency of Wind Direction (8 pts.) vs. Wind Speed (kts.) with Varying Values of Visibility (Nautical Miles).

Table 10 - Percentage Frequency of Ceiling Heights (feet, NH > 4/8) and Occurrence of NH <5/8 by Hour (GMT).

Table 11 - Percentage Frequency of Visibility (Nautical Miles) by Hour (GMT).

Table 12 - Cumulative Percentage Frequency of Ranges of Visibility (Nautical Miles) and Ceiling Height (feet, NH > 4/8) by Hour (GMT).

Table 13 - Percentage Frequency of Relative Humidity (%) by Air Temperature (° F.).

Table 14 - Percentage Frequency of Wind Direction (8 pts.) by Air Temperature (° F.).

Table 15 - Means, Extremes, and Percentiles of Air Temperature (° F.) by Hour (GMT). Extreme temperatures are the one maximum and one minimum value appearing in the marine data file. The Extremes may be unrepresentative due to sampling errors. Extrapolation from the percentile values usually gives a better estimate of expected extreme conditions.

Table 16 - Percentage Frequency of Relative Humidity (%) by Hour (GMT).

Table 17 - Percentage Frequency of Air Temperature (° F.) and the Occurrence of Fog vs. Air-Sea Temperature Difference (° F.).

Air-Sea Temperature Difference is:

Positive when the air is warmer than the sea surface; Negative when the air is cooler than the sea surface. In the table heading, the limits of the temperature ranges appear in a vertical arrangement along the top of the table.

Table 18 - Percentage Frequency of Surface Wind Speed (kts.) and Direction (8 pts.) vs. Sea Height (feet). Source deck 128 for which data are available from mid-1963 was used for these tables. This deck represents the latest and most complete homogeneous source of wave data available. Here, only sea waves generated by local winds in the vicinity of the observer are summarized.

Table 19 - Percentage Frequency of Wave Height (feet) vs. Wave Period (seconds). In this table when both sea and swell waves are present in an observation, the higher of the two is used. If both are the same height, the longer period is chosen. When only one of the wave groups is observed, either sea or swell, it is used in the summary. Swell waves are those generated by winds distant from the local area where the observation is taken.

Tables 1-19 appear together for each month and in the annual summary. The following two tables appear at the end of the entire series for each area.

Table 20 - Monthly and Annual Percentage Frequencies and Means of Sea Surface Temperature (° F.).

Table 21 - Monthly and Annual Sea Level Pressures (millibars). This table includes means by hour and for all hours, extreme values and percentile values.

Note: In this volume, percentage frequencies at specified hours of the day refer to percentages of observations taken at those hours, rather than percentages of observations taken at all hours. Data at adjacent hours are summarized with data at synoptic hours, i.e., data from 02 and 04 GMT are combined with data from 03 GMT.

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AREA	NAME	PAGES
30	Baja	1-79
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32	San Diego	159-237
33	Santa Rosa Island SW	238-316
34	Point Mugu NW	317-395
35	San Francisco	396-474

Copies of this document are obtainable from the National Technical Information Service (NTIS), Springfield, Virginia 22161.

DIRECTION AND WEATHER CODES

CONVERSION OF WIND AND WAVE DIRECTION TO 8 POINTS

A reduced bias system was employed in converting wind and wave directions to 8 points. This method attaches weighting values to observations which overlap two different 8 point sectors and treats them as "decimal observation counts." These decimal quantities are rounded to whole numbers for presentation as "observational counts" in the tables. Figures 1-4 below show the 8 point system with other systems superimposed.

Note: Because of rounding, sub-total sums of "observation counts" may not equal grand totals.

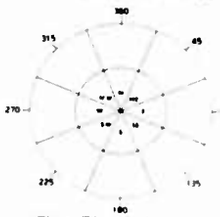


Fig 1. The 8 point direction system.

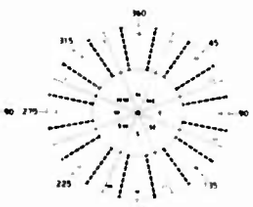


Fig 2. The 16 point direction system superimposed on the 8 point system.

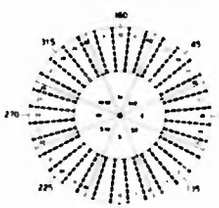


Fig 3. The 32 point direction system superimposed on the 8 point system.

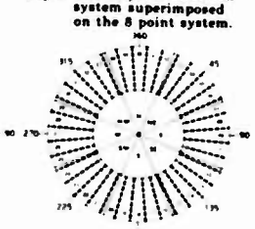


Fig 4. The 36 point direction system superimposed on the 8 point system.

VISIBILITY (VV)

CODE	INTERPRETATION (NAUTICAL MILES)
90-93	VV<1/2
94	1/2≤VV<1
95	1≤VV<2
96	2≤VV<5
97	5≤VV<10
98	10≤VV<25
99	VV≥25

NOTE: <means less than; >means greater than; ≤means less than or equal to; ≥means greater than or equal to.

PRESENT WEATHER (1960 WMO CODE 4677)

CODE	INTERPRETATION
58-59, 60-65, 91-94, (68-69,95,97 IF TEMP >40°F)	RAIN
80-82,(83-84 IF TEMP >40°F)	RAIN SHOWERS
50-55,58-59	DRIZZLE
56-57, 66-67	FREEZING PRECIPITATION
70-75,85-86 (68-69,83-84, 95,97 IF TEMP ≤40°F)	SNOW
76-79	OTHER FROZEN PRECIPITATION
87-90, 93-94, 96,99	HAIL
13,17, 19,29, 95-99	THUNDER LIGHTNING THUNDERSTORM

CODE	INTERPRETATION
10-12, 40-49	FOG (WITHOUT PRECIPITATION)
28	FOG (WITHOUT PRECIPITATION) PAST HOUR
04-05	SMOKE HAZE
06-09, 30-39	SPRAY BLOWING DUST BLOWING SNOW
00-03, 14-16, 18	NO SIGNIFICANT WEATHER AT OB TIME
00-49	NO PRECIPITATION AT OB TIME
50-99	PRECIPITATION AT OB TIME
20-27	PRECIPITATION PAST HOUR

NOTE: The following WMO codes were counted in two weather categories. 58-59 (rain and drizzle); 68-69 (rain and snow); 93-94 (rain and hail); 96 and 99 (hail and thunder/lightning/thunderstorm); 95 and 97 (snow and thunder/lightning/thunderstorm), or (rain and thunder/lightning/thunderstorm).

WAVE HEIGHT (from source decks 128 and 116)

RECORDED CODE (HALF METERS)	RANGE (METERS)	AS RECORDED IN TABULATION (FEET)
00	≤.25	<1
01	>.25 to .75	1-2
02	>.75 to 1.25	3-4
03	>1.25 to 1.75	5-6
04	>1.75 to 2.25	7
05	>2.25 to 2.75	8-9
06	>2.75 to 3.25	10-11
07	>3.25 to 3.75	12
08	>3.75 to 4.25	13-16
09	>4.25 to 4.75	
10	>4.75 to 5.25	17-19
11	>5.25 to 5.75	
12	>5.75 to 6.25	20-22
13	>6.25 to 6.75	
14	>6.75 to 7.25	23-25
15	>7.25 to 7.75	
16	>7.75 to 8.25	26-32
17	>8.25 to 8.75	
18	>8.75 to 9.25	
19	>9.25 to 9.75	
20	>9.75 to 10.25	33-40
21	>10.25 to 10.75	
22	>10.75 to 11.25	
23	>11.25 to 11.75	
24	>11.75 to 12.25	
25	>12.25 to 12.75	41-48
26	>12.75 to 13.25	
27	>13.25 to 13.75	
28	>13.75 to 14.25	
29	>14.25 to 14.75	
30	>14.75 to 15.25	49-60
31	>15.25 to 15.75	
32	>15.75 to 16.25	
33	>16.25 to 16.75	
34	>16.75 to 17.25	
35	>17.25 to 17.75	
36	>17.75 to 18.25	
37	>18.25 to 18.75	61-70
38	>18.75 to 19.25	
39	>19.25 to 19.75	
40	>19.75 to 20.25	
41	>20.25 to 20.75	
42	>20.75 to 21.25	
43	>21.25 to 21.75	71-86
44	>21.75 to 22.25	
45	>22.25 to 22.75	
46	>22.75 to 23.25	
47	>23.25 to 23.75	
48	>23.75 to 24.25	
49	>24.25 to 24.75	
50	>24.75 to 25.25	
51	>25.25 to 25.75	
52	>25.75 to 26.25	
53-99	>26.25 to 49.75	≥87

Indeterminate=INDET

JANUARY

PERIOD: (PRIMARY) 1949-1974
(OVER-ALL) 1863-1974

AREA 0030 BAJA
29.3N 116.6W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	.5	.1	.3	.0	.0	.0	.0	.9	.2	.3	2.7	.1	2.9		.0	93.0
NE	1.0	.4	.0	.0	.0	.0	.0	1.4	.5	.8	1.8	.0	2.2		.0	93.4
E	.5	.0	1.0	.0	.0	.0	.0	1.4	2.6	.0	1.0	.0	2.6		.0	92.3
SE	4.2	.9	2.7	.0	.0	.0	.0	7.8	3.6	.0	1.8	.0	1.8		.0	85.1
S	4.8	.7	1.4	.0	.0	.0	.0	6.8	5.1	.0	7.7	.0	.3		.0	90.1
SW	2.8	.2	2.8	.0	.0	.0	.0	5.7	3.3	.7	5.9	.0	1.3		.0	83.0
W	1.1	1.8	2.1	.0	.0	.0	.0	4.9	2.2	.0	2.5	.2	1.9		.0	88.2
NW	.5	.6	.6	.0	.0	.0	.0	1.6	1.0	.1	3.3	.5	3.5		.1	90.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	.0
CALM	1.1	.0	.0	.0	.0	.0	.0	1.1	1.1	.0	5.9	.0	7.4		.0	84.6
TOT PCT	.9	.5	.7	.0	.0	.0	.0	2.1	1.1	.2	3.2	.2	3.0		*	90.0
TOT OBS:	4264															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00&03	.9	.6	.5	.0	.0	.0	.0	1.9	.8	.1	3.6	.4	3.7		.0	89.5
06&09	.8	.4	1.0	.0	.0	.0	.0	2.3	1.3	.2	2.9	.1	2.4		.1	90.7
12&15	1.3	.5	1.1	.0	.0	.0	.0	2.8	1.5	.6	3.4	.3	2.8		.0	88.5
18&21	.5	.4	.4	.0	.0	.0	.0	1.3	.9	.0	2.4	.2	3.1		.0	91.2
TOT PCT	.9	.5	.7	.0	.0	.0	.0	2.1	1.1	.2	3.3	.2	3.0		*	90.0
TOT OBS:	4327															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	1.9	12.9	11.1	1.2	*	.0		27.2	11.1	24.6	29.1	26.8	25.5	27.9	24.9	29.6	29.4
NE	.7	3.1	1.8	.3	*	.0		6.0	10.1	3.9	5.5	6.1	7.3	5.9	10.5	6.3	9.6
E	.4	1.3	.8	*	*	.0		2.5	9.3	1.7	2.5	1.9	2.4	3.0	2.1	3.5	1.2
SE	.4	1.7	.5	.1	.0	.0		2.7	7.9	2.7	3.9	2.3	1.8	2.3	2.5	3.0	4.4
S	.4	2.2	.8	.1	.0	.0		3.4	8.7	3.6	4.6	3.3	1.7	3.1	3.4	3.4	5.4
SW	.6	1.7	.7	*	.0	.0		3.1	8.0	2.8	1.8	2.7	2.9	3.7	4.1	3.3	3.8
W	.9	4.0	2.0	.4	*	.0		7.3	9.7	7.7	7.4	7.0	9.5	7.6	9.1	6.2	6.6
NW	2.3	21.0	17.8	2.0	.1	.0		43.2	11.3	50.6	41.7	44.6	43.4	41.3	38.4	39.3	34.8
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	4.7							4.7	.0	2.7	3.5	5.3	5.5	5.2	5.0	5.6	4.9
TOT OBS	576	2257	1670	197	8	0	4708		10.2	1073	141	867	164	963	200	1095	203
TOT PCT	12.2	47.9	35.5	4.2	.2	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	6.2	17.0	3.7	.3	.0		27.2	11.1	25.1	26.6	27.3	29.5
NE	2.0	3.1	.7	.1	.0		6.0	10.1	4.1	6.3	6.7	6.8
E	1.0	1.2	.2	*	.0		2.5	9.3	1.8	2.0	2.9	3.1
SE	1.3	1.1	.2	.0	.0		2.7	7.9	2.8	2.2	2.3	3.3
S	1.6	1.6	.3	.0	.0		3.4	8.7	3.7	3.0	3.2	3.7
SW	1.5	1.4	.2	.0	.0		3.1	8.0	2.5	2.7	3.8	3.3
W	2.5	3.7	.9	*	.0		7.3	9.7	7.7	7.4	7.8	6.3
NW	10.0	25.8	6.9	.6	.0		43.2	11.3	49.6	44.4	40.8	38.6
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	4.7						4.7	.0	2.8	5.3	5.2	5.5
TOT OBS	1457	2582	619	50	0	4708		10.2	1114	1031	1163	1300
TOT PCT	30.9	54.8	13.1	1.1	.0		100.0		100.0	100.0	100.0	100.0

JANUARY

PERIOD: (PRIMARY) 1949-1974
(OVER-ALL) 1863-1974

AREA 0030 BAJA
29.3N 116.6W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	2.8	7.0	47.0	38.8	4.1	.3	.0	10.8	100.0	1214
06&09	5.3	5.4	49.8	34.7	4.7	.1	.0	10.2	100.0	1031
12&15	5.2	8.0	49.6	32.9	4.2	.1	.0	9.9	100.0	1163
18&21	5.5	9.4	45.9	35.2	3.8	.2	.0	9.9	100.0	1300
TOT	220	356	2257	1670	197	8	0	10.2		4708
PCT	4.7	7.6	47.9	35.5	4.2	.2	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	14.7	4.5	5.8	3.0		2.9
NE	4.1	.5	1.0	.3		2.0
E	1.2	.3	.4	.5		3.4
SE	.7	.3	.7	.6		4.7
S	.6	.3	.7	1.6		5.8
SW	.6	.3	.9	.8		5.1
W	2.7	.9	1.9	1.5		4.1
NW	18.2	7.5	11.1	7.2		3.7
VAR	.0	.0	.0	.0		.0
CALM	2.3	.6	.7	.8		3.0
TOT OBS	1461	500	750	527	3238	3.5
TOT PCT	45.1	15.4	23.2	16.3	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.2	.1	.4	.9	2.3	1.3	.5	.2	.1	.1	22.0	
NE	.0	.0	*	.1	.3	.2	.0	*	*	*	5.3	
E	.0	*	.1	.1	.2	.2	.1	.0	*	*	1.8	
SE	.1	.0	.0	.2	.4	.2	.1	.1	.0	*	1.3	
S	.2	.1	.1	.3	.6	.4	.2	*	.0	*	1.2	
SW	*	.0	.1	.2	.7	.2	.1	.1	.0	.0	1.3	
W	.1	*	.1	.6	.9	.5	.4	.1	.0	*	4.4	
NW	.8	.4	.7	2.5	5.0	2.7	1.0	.3	.2	.2	30.2	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.2	.0	*	.2	.3	.2	*	.0	*	.1	3.4	
TOT OBS	51	20	48	163	345	184	78	24	12	16	2297	3238
TOT PCT	1.6	.6	1.5	5.0	10.7	5.7	2.4	.7	.4	.5	70.9	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM) * OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >50YD	* OR >0
* OR >6500	.8	.9	.9	.9	.9	.9	.9	.9
* OR >3000	1.4	1.6	1.6	1.6	1.6	1.6	1.6	1.6
* OR >1500	3.5	4.0	4.0	4.0	4.0	4.0	4.0	4.0
* OR >2000	8.4	9.5	9.6	9.6	9.6	9.6	9.6	9.6
* OR >1000	17.3	20.1	20.2	20.2	20.2	20.2	20.2	20.2
* OR >600	21.0	24.9	25.2	25.3	25.3	25.3	25.3	25.3
* OR >300	22.0	26.2	26.7	26.7	26.7	26.7	26.7	26.7
* OR >150	22.3	26.8	27.2	27.3	27.3	27.3	27.3	27.3
* OR > 0	22.5	27.2	27.9	28.1	28.2	28.4	28.8	28.9
TOTAL	733	889	910	916	922	927	940	943

TOTAL NUMBER OF OBS: 3265

PCT FREQ NH <5/8: 71.1

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
33.4	11.0	10.2	9.2	6.3	5.3	6.5	6.1	10.8	1.1	3484

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PERIOD: (PRIMARY) 1949-1974
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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	PCP	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	
<1/2	NO PCP	.1	*	.0	*	.1	*	.1	.3	.0	.2	.8	
	TOT %	.1	*	.0	*	.1	*	.1	.3	.0	.2	.8	
	PCP	*	.0	.0	.0	*	*	*	.0	.0	.0	.1	
1/2<1	NO PCP	.2	.1	*	.0	.1	.1	.0	.1	.0	.0	.6	
	TOT %	.2	.1	*	.0	.1	.1	*	.1	.0	.0	.7	
	PCP	.0	.0	.0	*	.0	*	*	.1	.0	.0	.2	
1<2	NO PCP	.0	.0	.0	.0	*	*	*	.2	.0	.0	.2	
	TOT %	.0	.0	.0	*	*	*	*	.2	.0	.0	.4	
	PCP	*	*	*	*	.1	.1	.1	.1	.0	.0	.5	
2<5	NO PCP	.4	.0	.0	*	.1	.1	.1	.8	.0	.1	1.6	
	TOT %	.4	*	*	*	.2	.1	.2	.9	.0	.1	2.1	
	PCP	.1	*	*	.1	.1	*	.1	.2	.0	*	.7	
5<10	NO PCP	3.1	.4	.2	.5	.5	.5	.8	5.3	.0	.5	11.7	
	TOT %	3.2	.4	.2	.6	.6	.6	.9	5.4	.0	.5	12.4	
	PCP	.1	*	.0	*	*	*	.1	.3	.0	*	.6	
10+	NO PCP	23.5	5.4	2.2	1.9	2.4	2.2	5.9	35.9	.0	3.7	83.1	
	TOT %	23.6	5.4	2.2	2.0	2.4	2.2	6.0	36.2	.0	3.7	83.7	
	TOT OBS												4251
	TOT PCT	27.6	6.0	2.4	2.6	3.4	3.2	7.3	43.1	.0	4.4	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	0-3	.1	*	.0	.0	.0	.0	.0	*	.0	.2	.3	
<1/2	4-10	.1	.0	.0	*	.1	*	.1	.2	.0		.4	
	11-21	.0	.0	.0	.0	.0	.0	*	.1	.0		.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.2	*	.0	*	.1	*	.1	.3	.0	.2	.8	
	0-3	*	.1	.0	.0	.0	*	.0	.0	.0	.0	.2	
1/2<1	4-10	.1	.0	*	.0	.1	.1	*	.1	.0		.4	
	11-21	.1	.0	.0	.0	*	.0	.0	*	.0		.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.2	.1	*	.0	.1	.1	*	.1	.0	.0	.7	
	0-3	.0	.0	.0	.0	.0	.0	.0	*	.0	.0	*	
1<2	4-10	*	.0	.0	*	*	*	*	.2	.0		.3	
	11-21	.0	.0	.0	.0	.0	*	*	.1	.0		.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	*	.0	.0	*	*	*	*	.3	.0	.0	.4	
	0-3	.0	.0	*	.0	*	*	*	*	.0	.1	.2	
2<5	4-10	.3	.0	.0	.0	*	.1	.1	.5	.0		1.0	
	11-21	.1	*	.0	*	.1	.1	.1	.4	.0		.9	
	22+	.0	*	*	*	*	.0	.0	*	.0		.1	
	TOT %	.5	*	*	*	.2	.2	.2	1.0	.0	.1	2.2	
	0-3	.3	.1	*	.1	.1	.1	.1	.3	.0	.5	1.5	
5<10	4-10	1.6	.2	.2	.4	.3	.2	.5	2.6	.0		6.0	
	11-21	1.1	.1	*	*	.2	.2	.2	2.1	.0		4.0	
	22+	.1	.0	.0	*	*	*	.1	.2	.0		.5	
	TOT %	3.2	.4	.3	.6	.6	.5	.9	5.2	.0	.5	12.1	
	0-3	1.5	.5	.3	.3	.2	.5	.7	1.9	.0	3.7	9.5	
10+	4-10	10.8	3.0	1.1	1.1	1.7	1.3	3.4	17.4	.0		39.8	
	11-21	10.0	1.7	.8	.5	.5	.5	1.6	15.1	.0		30.6	
	22+	1.1	.3	*	*	*	*	.3	1.9	.0		3.8	
	TOT %	23.4	5.5	2.2	2.0	2.4	2.2	6.1	36.3	.0	3.7	83.8	
	TOT OBS												4525
	TOT PCT	27.3	6.0	2.5	2.7	3.4	3.1	7.4	43.2	.0	4.4	100.0	

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PERIOD: (PRIMARY) 1949-1974
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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET,NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00&03	1.1	.4	1.3	5.0	10.6	5.0	2.3	.7	.4	.3	27.2	72.8	903
06&09	1.8	.8	.9	3.7	9.1	4.8	2.0	.9	.1	.5	24.7	75.3	757
12&15	2.1	.6	2.2	5.3	8.4	5.7	1.3	.3	.1	.9	26.8	73.2	775
18&21	1.1	.5	1.4	5.4	12.4	6.3	3.3	.9	.6	.3	32.3	67.7	960
TOT	51	20	49	166	349	185	78	26	12	17	951	2444	3395
PCT	1.5	.6	1.4	4.9	10.3	5.4	2.3	.7	.4	.5	28.0	72.0	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00&03	1.1	.3	.3	2.0	11.9	84.4	1165
06&09	.9	.8	.3	1.6	12.9	83.6	1017
12&15	.7	1.1	.8	2.5	14.0	81.0	1130
18&21	.6	.6	.3	2.6	10.3	85.5	1277
TOT	38	32	19	100	560	3840	4589
PCT	.8	.7	.4	2.2	12.2	83.7	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET,NH >4/8),BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <3	1000+ AND3+	NH <5/8 AND 5+	TOTAL OBS
00&03	1.1	3.1	9.6	20.0	70.4	871
06&09	1.9	3.7	7.8	17.7	74.4	727
12&15	2.2	5.5	12.2	16.8	71.1	740
18&21	1.2	3.2	9.9	24.6	65.5	927
TOT	51	125	323	655	2287	3265
PCT	1.6	3.8	9.9	20.1	70.0	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
75/79	.0	.0	.1	.1	.1	.1	.0	.0	8	.2
70/74	.0	*	.1	.2	.4	.3	.2	*	43	1.2
65/69	.0	.2	.3	.6	2.1	2.8	1.9	.7	298	8.7
60/64	.0	.1	1.0	2.2	7.8	15.5	15.5	5.0	1620	47.0
55/59	*	.1	.9	2.4	5.9	11.5	12.2	6.3	1357	39.4
50/54	.0	*	.1	.6	.8	.8	.5	.5	115	3.3
45/49	.0	.0	*	.1	.0	.0	*	.0	4	.1
TOTAL	1	15	88	212	590	1066	1046	428	3446	100.0
PCT	*	.4	2.6	6.2	17.1	30.9	30.4	12.4		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
*	.0	.0	.0	.0	.0	*	.2	.0	*
.4	.1	.1	.0	*	*	.1	.6	.0	.1
2.3	.7	.3	.1	.3	.3	.5	3.5	.0	.6
12.6	2.7	1.0	1.6	1.8	1.4	3.6	19.9	.0	2.4
11.4	2.2	.7	.8	1.2	1.3	2.7	17.9	.0	1.1
.9	.3	.2	.1	.1	*	.1	1.4	.0	.1
*	*	.0	.0	.0	.0	.0	.1	.0	.0
27.6	6.0	2.4	2.6	3.5	2.9	7.1	43.6	.0	4.3

TABLE 15

MEANS,EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00&03	79	74	68	61	56	52	47	61.4	1214
06&09	69	66	64	59	54	52	49	59.2	1045
12&15	71	66	63	59	54	52	48	58.7	1178
18&21	81	70	67	61	55	52	48	61.2	1305
TOT	81	70	66	60	55	52	47	60.2	4742

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00&03	.1	12.1	21.0	31.0	27.8	8.0	74	886
06&09	.0	6.3	12.8	31.4	34.1	15.4	79	791
12&15	.0	6.9	13.0	28.5	34.7	16.9	79	859
18&21	.0	11.2	20.4	32.2	25.8	10.4	75	934
TOT	1	323	594	1075	1060	437	77	3490

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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	45 48	49 52	53 56	57 60	61 64	65 68	69 72	73 76	77 80	TOT	W FOG	WO FOG
17/19	.0	.0	.0	.0	.0	*	.0	.0	*	2	.0	.1
14/16	.0	.0	.0	.0	*	.1	.0	*	.1	7	.0	.2
11/13	.0	.0	.0	.0	.1	.1	.2	.1	.1	20	.0	.5
9/10	.0	.0	.0	*	.1	.2	.4	.1	.0	29	.0	.7
7/8	.0	.0	.1	.0	.3	.8	.4	*	.0	59	*	1.5
6	.0	.0	.0	.2	.3	.6	.2	.0	.0	51	.0	1.3
5	.0	.0	.0	.1	.8	1.2	.1	.0	.0	89	.0	2.2
4	.0	.0	.0	.2	1.8	1.2	.1	*	.0	131	.1	3.2
3	.0	.0	.1	.6	1.7	.9	.1	.0	.0	131	.1	3.2
2	.0	.0	.1	1.3	4.4	.9	.0	.0	.0	267	.2	6.6
1	.0	.0	.1	2.2	4.4	.6	*	.0	.0	293	.5	6.9
0	.0	*	.3	5.9	7.3	.9	.0	.0	.0	574	.3	14.1
-1	.0	.0	.6	6.6	4.1	.3	.0	.0	.0	458	.4	11.1
-2	.0	.1	1.5	7.9	4.0	.2	.0	.0	.0	540	.5	13.1
-3	.0	.1	1.6	6.1	1.9	.2	.0	.0	.0	391	.4	9.5
-4	.0	*	2.2	5.1	1.1	.1	.0	.0	.0	337	.3	8.2
-5	.0	*	2.1	2.8	.6	.0	.0	.0	.0	220	.3	5.3
-6	.0	.1	1.8	1.8	.3	.0	.0	.0	.0	157	.2	3.8
-7/-8	.0	.4	1.3	1.6	.5	*	.0	.0	.0	148	.2	3.5
-9/-10	.1	.3	.4	.5	.1	.0	.0	.0	.0	51	.0	1.3
-11/-13	.0	.1	.2	.1	*	.0	.0	.0	.0	14	.0	.4
-14/-16	.0	*	.0	.1	.0	.0	.0	.0	.0	3	*	.1
-17/-19	.0	*	.0	.0	.0	.0	.0	.0	.0	1	.0	*
TOTAL	3	41	479	1717	1332	330	55	10	6	3973	132	3841
PCT	.1	1.0	12.1	43.2	33.5	8.3	1.4	.3	.2	100.0	3.3	96.7

PERIOD: (OVER-ALL) 1963-1974

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.7	1.6	.1	.0	.0	.0	2.3
1-2	.4	8.2	3.1	.0	.0	.0	11.7
3-4	.2	3.2	5.6	.2	.0	.0	9.2
5-6	.0	.9	3.1	.7	.0	.0	4.7
7	.0	.1	.9	.5	.0	.0	1.6
8-9	.0	.0	.3	.1	.0	.0	.4
10-11	.0	.1	.1	.2	.1	.0	.5
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.1	.0	.0	.1
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.2	14.2	13.2	1.8	.1	.0	30.5

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.3	.0	.0	.0	.0	.3
1-2	.1	2.0	.7	.0	.0	.0	2.9
3-4	.0	.5	1.2	.1	.0	.0	1.9
5-6	.0	.2	.8	.5	.0	.0	1.5
7	.0	.0	*	.1	.0	.0	.1
8-9	.0	.0	.1	.1	.1	.0	.2
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.2	3.0	2.8	.7	.1	.0	6.8

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.4	.0	.0	.0	.0	.6
1-2	.1	.6	.1	.0	.0	.0	.8
3-4	.0	.3	.3	.0	.0	.0	.6
5-6	.0	.1	.2	.0	.0	.0	.3
7	.0	.0	.1	.0	.0	.0	.1
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	1.4	.6	.0	.0	.0	2.3

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.3	.0	.0	.0	.0	.4
1-2	.1	.5	.2	.0	.0	.0	.9
3-4	.0	.1	.3	.0	.0	.0	.4
5-6	.0	.0	*	.0	.0	.0	*
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	*	.0	.0	.0	*
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	1.0	.5	.0	.0	.0	1.7

PERIOD: (OVER-ALL) 1963-1974

JANUARY

AREA 0030 BAJA
29.3N 116.6W

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

S

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.9	.0	.0	.0	.0	1.0
1-2	.0	1.0	.3	.0	.0	.0	1.3
3-4	.0	.1	.3	.0	.0	.0	.4
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.1	.0	.0	.0	.1
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.1	2.0	.7	.0	.0	.0	2.8

SW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	.3	.0	.0	.0	.0	.7
1-2	*	.7	.4	.0	.0	.0	1.1
3-4	.0	.1	.3	.0	.0	.0	.3
5-6	.0	.0	.2	.0	.0	.0	.2
7	.0	.1	.0	.0	.0	.0	.1
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	1.2	.8	.0	.0	.0	2.3

W

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.5	.5	.0	.0	.0	.0	1.0
1-2	.3	1.8	.6	.0	.0	.0	2.7
3-4	.0	.4	.4	.1	.0	.0	.8
5-6	.0	.0	.3	.0	.0	.0	.3
7	.0	.1	.1	.0	.0	.0	.1
8-9	.0	.0	.1	.0	.0	.0	.1
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.7	2.8	1.4	.1	.0	.0	5.0

NW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	1.0	3.1	*	.0	.0	.0	4.2	
1-2	.7	10.5	4.2	.0	.0	.0	15.4	
3-4	.1	5.8	9.0	.4	.0	.0	15.3	
5-6	.0	1.7	3.6	.8	.0	.0	6.1	
7	.0	.3	.9	.6	.0	.0	1.7	
8-9	.0	.0	.3	.2	.1	.0	.6	
10-11	.0	*	.3	.1	.0	.0	.4	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.1	.0	.0	.0	.1	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	1.9	21.4	18.4	2.2	.1	.0	44.0	95.4

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	7.8	7.4	.1	.0	.0	.0	15.3	
1-2	2.0	25.2	9.5	.0	.0	.0	36.7	
3-4	.4	10.5	17.1	.8	.0	.0	28.8	
5-6	.0	2.9	8.2	1.9	.0	.0	13.0	
7	.0	.5	1.9	1.2	.0	.0	3.6	
8-9	.0	.0	.6	.4	.2	.0	1.3	
10-11	.0	.1	.6	.3	.1	.0	1.1	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.1	.1	.0	.0	.2	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	10.2	46.7	38.2	4.7	.3	.0	100.0	1386

PERIOD: (OVER-ALL) 1949-1974

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	6.0	16.0	17.1	6.6	1.8	.4	.2	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1439	3
6-7	.0	2.2	8.2	6.9	2.8	1.5	.8	.2	.3	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	688	5
8-9	.0	.9	1.9	4.4	2.5	1.1	.3	.1	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	345	6
10-11	.0	.9	1.1	1.4	1.1	.5	.4	.1	.2	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	171	6
12-13	.0	.0	.8	.2	.4	.2	.1	*	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	54	6
>13	.0	.0	.0	.3	.1	.3	.2	.1	.1	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	34	8
INDET	4.4	1.5	1.4	.5	.4	*	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	255	2
TOTAL	311	645	912	614	273	119	64	17	28	1	2	0	0	0	0	0	0	0	0	2986	4
PCT	10.4	21.6	30.5	20.6	9.1	4.0	2.1	.6	.9	*	.1	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

FEBRUARY

PERIOD: (PRIMARY) 1950-1974
(OVER-ALL) 1896-1974

AREA 0030 BAJA
29.4N 116.6W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	.5	.1	.4	.0	.0	.0	.0	.9	.1	.2	3.4	.2	2.7	.0		92.5
NE	1.1	.0	.0	.0	.0	.0	.0	1.1	.0	.0	2.0	.7	1.3	.0		94.9
E	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.5	.0	.9	.0		93.6
SE	2.8	1.1	3.3	.0	.0	.0	.0	7.2	.6	.0	6.1	1.1	.0	.0		85.0
S	2.8	.9	1.3	.0	.0	.0	.0	5.1	7.7	.0	1.3	.0	.0	.0		85.9
SW	1.3	2.3	.8	.0	.0	.0	.0	4.5	5.3	1.3	2.8	.2	1.3	.0		84.5
W	.5	.3	.8	.0	.0	.0	.0	1.5	2.8	.0	3.6	.5	1.9	.0		89.7
NW	.3	.1	.7	.0	.0	.0	.0	1.0	.9	.0	3.0	.1	3.3	.0		91.6
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0
CALM	.0	.0	.7	.0	.0	.0	.0	.7	.0	.7	7.2	.0	5.1	.0		86.2
TOT PCT	.5	.2	.7	.0	.0	.0	.0	1.4	1.2	.1	3.3	.2	2.7	.0		91.0
TOT OBS:	4191															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00&03	.5	.0	.7	.0	.0	.0	.0	1.0	.9	.1	2.6	.4	4.1	.0		91.0
06&09	.3	.0	.3	.0	.0	.0	.0	.6	1.3	.2	2.6	.1	2.4	.0		92.8
12&15	.6	.7	1.0	.0	.0	.0	.0	2.3	1.5	.3	3.5	.4	1.3	.0		90.6
18&21	.7	.2	.7	.0	.0	.0	.0	1.6	1.2	.0	4.3	.0	2.8	.0		90.1
TOT PCT	.5	.2	.7	.0	.0	.0	.0	1.4	1.2	.1	3.3	.2	2.7	.0		91.0
TOT OBS:	4241															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)								HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	1.3	11.4	10.6	.9	*	.0		24.2	11.5	21.6	22.4	24.8	25.2	25.5	24.0	26.1	21.0
NE	.4	2.0	1.1	.1	*	.0		3.5	9.3	2.0	1.8	3.0	4.0	3.8	6.3	4.8	3.7
E	.5	1.1	.2	.1	.0	.0		2.0	7.0	.8	.0	2.2	2.0	2.1	2.3	2.5	4.5
SE	.5	1.1	.3	*	.0	.0		2.0	7.0	1.3	3.6	1.2	1.3	2.5	2.7	2.6	3.7
S	.7	2.0	1.0	.1	.0	.0		3.8	8.4	3.5	6.0	3.8	7.7	3.0	5.8	3.2	4.8
SW	.6	2.0	.8	.1	*	.0		3.5	8.8	3.7	3.2	3.9	4.0	2.9	5.7	2.6	4.8
W	.7	5.3	2.2	.2	*	.0		8.4	9.2	7.9	6.3	9.3	10.3	9.0	6.5	7.8	8.0
NW	1.9	20.4	24.2	2.6	.1	.0		49.2	12.3	56.8	52.8	47.0	42.2	47.2	44.2	47.0	47.7
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	3.5							3.5	.0	2.3	4.0	4.8	3.3	4.1	2.5	3.5	1.8
TOT OBS	462	2075	1853	186	9	0	4585		10.8	1067	126	876	150	886	197	1065	218
TOT PCT	10.1	45.3	40.4	4.1	.2	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)							HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	4.7	14.9	4.4	.1	*		24.2	11.5	21.7	24.9	25.3	25.2
NE	1.4	1.7	.4	*	.0		3.5	9.3	2.0	3.1	4.2	4.6
E	1.1	.8	.1	.0	.0		2.0	7.0	.7	2.2	2.1	2.8
SE	1.2	.7	.1	*	.0		2.0	7.0	1.5	1.2	2.5	2.8
S	1.7	1.8	.3	*	.0		3.8	8.4	3.8	4.4	3.5	3.5
SW	1.6	1.5	.4	*	.0		3.5	8.8	3.7	3.9	3.4	3.0
W	3.2	4.4	.7	.1	.0		8.4	9.2	7.8	9.5	8.5	7.9
NW	8.3	30.6	9.6	.7	*		49.2	12.3	56.4	46.3	46.6	47.1
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	3.5						3.5	.0	2.5	4.6	3.8	3.2
TOT OBS	1217	2587	733	46	2	4585		10.8	1193	1026	1083	1283
TOT PCT	26.5	56.4	16.0	1.0	*		100.0		100.0	100.0	100.0	100.0

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PERIOD: (PRIMARY) 1950-1974
(OVER-ALL) 1896-1974

AREA 0030 BAJA
29.4N 116.6W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	2.5	5.2	44.3	43.8	3.9	.3	.0	11.3	100.0	1193
06&09	4.6	6.6	43.7	41.4	3.5	.2	.0	10.8	100.0	1026
12&15	3.8	6.4	47.4	38.0	4.3	.2	.0	10.6	100.0	1083
18&21	3.2	8.1	45.6	38.5	4.4	.2	.0	10.6	100.0	1283
TOT	159	303	2075	1853	186	9	0	10.8		4585
PCT	3.5	6.6	45.3	40.4	4.1	.2	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	12.9	2.9	5.6	3.9		3.1
NE	2.1	.4	1.0	.3		2.8
E	1.1	.1	.4	.2		2.8
SE	.4	.3	.7	.9		5.1
S	.9	.4	1.0	1.1		5.1
SW	.7	.4	1.2	.9		5.2
W	2.1	1.5	2.4	1.9		4.5
NW	20.2	8.4	13.2	8.0		3.7
VAR	.0	.0	.0	.0		.0
CALM	1.4	.5	1.1	.4		3.7
TOT OBS	1358	483	867	540	3248	3.7
TOT PCT	41.8	14.9	26.7	16.6	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.3	.1	.2	1.1	1.9	1.4	.4	.3	.2	*	18.8	
NE	*	*	.0	*	.3	.2	.1	.0	.1	.1	3.1	
E	.1	.0	.0	.1	.1	*	*	.0	*	.0	1.5	
SE	.1	.0	*	.2	.2	.2	*	.1	.0	.0	1.1	
S	.0	.0	*	.3	.5	.4	.1	.1	*	.1	2.0	
SW	.1	*	*	.3	.5	.4	.1	*	*	.0	1.7	
W	.1	*	.1	.6	1.2	.8	.2	.1	.1	*	4.7	
NW	.8	*	.6	3.0	5.6	4.0	1.3	.3	.2	.2	33.6	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.2	.0	.0	.1	.2	.1	*	.0	*	*	2.6	
TOT OBS	54	6	30	188	340	241	75	30	22	14	2248	3248
TOT PCT	1.7	.2	.9	5.8	10.5	7.4	2.3	.9	.7	.4	69.2	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM) * OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >50YD	* OR >0
* OR >6500	1.1	1.2	1.2	1.2	1.2	1.2	1.2	1.2
* OR >5000	1.9	2.1	2.1	2.1	2.1	2.1	2.1	2.1
* OR >3500	4.1	4.3	4.4	4.4	4.4	4.4	4.4	4.4
* OR >2000	10.9	11.6	11.8	11.8	11.8	11.8	11.8	11.8
* OR >1000	19.1	21.8	22.1	22.1	22.1	22.1	22.1	22.1
* OR >600	23.1	27.1	27.8	27.9	27.9	27.9	27.9	27.9
* OR >900	23.5	27.9	28.7	28.8	28.8	28.8	28.8	28.8
* OR >150	23.6	28.0	28.8	29.0	29.0	29.0	29.0	29.0
* OR > 0	23.8	28.4	29.5	29.7	29.8	30.1	30.4	30.5
TOTAL	775	925	960	967	970	980	992	994

TOTAL NUMBER OF OBS: 3259

PCT FREQ NH <5/8: 69.5

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
32.0	9.5	10.7	8.9	7.2	5.6	7.1	7.2	10.6	1.2	3468

FEBRUARY

PERIOD: (PRIMARY) 1950-1974
(OVER-ALL) 1896-1974

AREA 0030 BAJA
29.4N 116.6W

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
<1/2	NO PCP	.2	*	*	*	*	*	.1	.5	.0	.1	1.0	
	TOT %	.2	*	*	*	*	*	.1	.5	.0	.1	1.0	
	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	NO PCP	*	*	.0	.0	.0	.0	*	.1	.0	*	.3	
	TOT %	*	*	.0	.0	.0	.0	*	.1	.0	*	.3	
	PCP	.0	.0	.0	.0	*	.0	.0	.0	.0	.0	*	
1<2	NO PCP	.2	*	.0	*	*	.1	.1	.3	.0	*	.6	
	TOT %	.2	*	.0	*	*	.1	.1	.3	.0	*	.6	
	PCP	.0	.0	.0	.0	*	*	*	.1	.0	.0	.2	
2<5	NO PCP	.5	.1	*	*	*	.1	.1	.8	.0	*	1.7	
	TOT %	.5	.1	*	*	*	.1	.1	.9	.0	*	1.9	
	PCP	.1	*	.0	*	.1	.1	.1	.1	.0	*	.5	
5<10	NO PCP	2.9	.4	.5	.2	.7	.6	.7	5.5	.0	.6	12.0	
	TOT %	3.0	.4	.5	.2	.8	.6	.8	5.6	.0	.6	12.5	
	PCP	.1	*	.0	.1	*	*	.0	.3	.0	.0	.6	
10+	NO PCP	19.9	2.8	1.4	1.6	2.7	2.6	7.4	42.1	.0	2.5	83.0	
	TOT %	20.0	2.8	1.4	1.8	2.8	2.7	7.4	42.3	.0	2.5	83.6	
	TOT OBS												4164
	TOT PCT	29.9	3.3	2.0	2.1	3.7	3.5	8.5	49.7	.0	3.3	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	0-3	*	.0	.0	.0	.0	*	.1	.1	.0	.1	.3	
<1/2	4-10	.1	*	*	*	*	*	.1	.3	.0		.6	
	11-21	*	.0	.0	.0	.0	.0	.0	.1	.0		.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.2	*	*	*	*	*	.1	.5	.0	.1	1.0	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	*	
1/2<1	4-10	*	*	.0	.0	.0	.0	*	.1	.0		.2	
	11-21	*	.0	.0	.0	.0	.0	*	*	.0		.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.1	*	.0	.0	.0	.0	*	.1	.0	*	.3	
	0-3	*	.0	.0	*	*	*	*	.1	.0	*	.2	
1<2	4-10	*	*	.0	*	*	*	*	.2	.0		.3	
	11-21	.1	.0	.0	.0	.0	.0	*	.1	.0		.2	
	22+	*	.0	.0	.0	.0	.0	.0	.0	.0		*	
	TOT %	.2	*	.0	*	*	.1	.1	.3	.0	*	.8	
	0-3	.1	*	*	*	.1	.1	*	.1	.0	*	.4	
2<5	4-10	.3	*	.0	*	*	.1	.1	.5	.0		1.1	
	11-21	.2	*	.0	.0	.0	.0	*	.3	.0		.6	
	22+	*	.0	.0	.0	.0	*	.0	.1	.0		.2	
	TOT %	.6	.1	*	*	.1	.2	.2	1.0	.0	*	2.2	
	0-3	.2	*	.2	.1	.1	.1	*	.2	.0	.5	1.4	
5<10	4-10	1.3	.3	.3	.1	.4	.4	.4	2.0	.0		5.2	
	11-21	1.3	.1	*	*	.3	.1	.2	2.8	.0		4.9	
	22+	.1	.0	.0	*	*	*	.0	.5	.0		.7	
	TOT %	2.9	.4	.5	.2	.8	.6	.7	5.5	.0	.5	12.2	
	0-3	1.0	.3	.3	.4	.5	.3	.6	1.5	.0	2.6	7.4	
10+	4-10	9.5	1.6	.9	1.0	1.5	1.6	4.5	16.9	.0		37.4	
	11-21	9.2	1.1	.2	.3	.7	.6	2.0	21.3	.0		35.3	
	22+	.8	.1	.1	*	*	.1	.2	2.2	.0		3.4	
	TOT %	20.5	3.0	1.4	1.7	2.7	2.6	7.2	41.8	.0	2.6	83.5	
	TOT OBS												4617
	TOT PCT	24.4	3.5	1.9	2.1	3.7	3.4	8.3	49.3	.0	3.3	100.0	

FEBRUARY

PERIOD: (PRIMARY) 1950-1974
(OVER-ALL) 1896-1974

AREA 0020 BAJA
29.4N 116.6W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET,NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00&03	1.1	.2	.9	5.9	10.6	6.8	2.0	.9	.9	.4	29.5	70.5	918
06&09	.8	.1	.5	4.2	8.6	5.5	1.4	.8	.5	.4	22.9	77.1	764
12&15	2.3	.1	1.1	5.1	10.7	7.0	1.6	.5	.5	.4	29.4	70.6	746
18&21	2.2	.2	1.1	6.9	10.3	9.3	3.7	1.3	.9	.4	36.2	63.8	948
TOT	54	6	30	189	341	244	76	30	24	14	1008	2368	3376
PCT	1.6	.2	.9	5.6	10.1	7.2	2.3	.9	.7	.4	29.9	70.1	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00&03	.8	.2	1.0	1.7	11.3	85.1	1153
06&09	.5	.2	.5	1.4	13.1	84.4	1011
12&15	1.2	.2	.9	2.3	15.0	80.4	1054
18&21	1.4	.5	.7	3.2	10.1	84.1	1251
TOT	45	12	35	98	546	3733	4469
PCT	1.0	.3	.8	2.2	12.2	83.5	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET,NH >4/8),BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <3	1000+ AND3+	NH <5/8 AND 3+	TOTAL OBS
00&03	1.0	2.2	9.1	21.6	69.3	889
06&09	.7	1.4	6.2	17.9	75.9	738
12&15	2.1	3.6	9.3	21.2	69.5	722
18&21	2.2	4.1	12.3	25.7	62.0	910
TOT	49	93	306	711	2242	3259
PCT	1.5	2.9	9.4	21.8	68.8	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
75/79	*	.0	.1	.1	*	*	*	.0	9	.3
70/74	.0	.1	*	.2	.2	.3	.1	.1	38	1.1
65/69	.0	.1	.1	.4	1.6	2.4	1.6	.6	234	6.8
60/64	.0	.1	.8	2.5	8.3	13.9	14.8	4.6	1554	45.0
55/59	*	.1	.5	1.4	5.9	12.0	15.7	7.3	1487	43.1
50/54	.0	*	.1	.3	.7	.8	.7	1.0	126	3.7
45/49	.0	.0	.0	.0	.0	.1	.0	.0	2	.1
TOTAL	2	18	56	171	578	1021	1138	466	3450	100.0
PCT	.1	.5	1.6	5.0	16.8	29.6	33.0	13.5		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
*	*	.0	*	*	*	.1	.1	.0	.0
.2	.1	*	.0	.1	*	.1	.6	.0	.1
1.7	.2	.2	.1	.3	.4	.5	3.4	.0	.1
11.1	1.6	.7	1.2	2.3	1.8	3.4	21.5	.0	1.5
11.2	1.6	.8	.6	.7	1.0	3.7	22.5	.0	1.0
.6	.2	*	.1	*	.1	.3	2.1	.0	.1
*	.0	.0	.0	.0	*	*	*	.0	.0
24.8	3.6	1.8	1.9	3.5	3.4	8.1	50.2	.0	2.8

TABLE 15

MEANS,EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	90%	5%	1%	MIN	MEAN	TOTAL OBS
00&03	78	74	68	61	56	54	52	61.5	1196
06&09	79	66	63	59	54	52	48	58.9	1036
12&15	77	65	63	58	54	51	48	58.3	1089
18&21	78	70	67	61	55	53	52	61.0	1282
TOT	79	70	66	60	55	53	48	60.0	4603

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00&03	.1	9.1	21.8	30.7	29.4	8.9	75	935
06&09	.0	4.0	12.9	28.3	37.0	17.9	80	801
12&15	.0	4.5	11.4	26.9	38.3	18.8	81	814
18&21	.1	9.9	19.4	31.2	29.2	10.1	76	941
TOT	2	247	583	1027	1158	474	78	3491

FEBRUARY

PERIOD: (PRIMARY) 1950-1974
(OVER-ALL) 1896-1974

TABLE 17

AREA 0030 BAJA
29.4N 116.6W

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	45 48	49 52	53 56	57 60	61 64	65 68	69 72	73 76	77 80	TOT	W FOG	WO FOG
17/19	.0	.0	.0	.0	.0	.0	.0	.1	.0	2	.0	.1
14/16	.0	.0	.0	.0	.1	.0	*	.1	.2	12	.0	.3
11/13	.0	.0	.0	.0	.1	.1	.2	.1	*	18	*	.4
9/10	.0	.0	*	*	.1	.3	.3	.1	.0	31	.0	.8
7/8	.0	.0	*	.1	.4	.6	.6	.0	.0	64	.0	1.6
6	.0	.0	.0	.1	.5	.6	.2	.0	.0	52	.0	1.3
5	.0	.0	*	.1	.9	1.0	.1	.0	.0	87	.0	2.2
4	.0	.0	*	.3	2.2	1.4	.1	.0	.0	151	.2	3.7
3	.0	.0	.0	.6	2.7	1.1	.0	.0	.0	174	.1	4.4
2	.0	.0	.2	2.1	4.9	.5	.0	.0	.0	299	.2	7.5
1	.0	.0	.2	3.4	4.3	.3	*	.0	.0	321	.2	8.0
0	.0	.0	.4	7.2	6.8	.4	.0	*	.0	580	.4	14.4
-1	.0	.0	.7	7.5	3.0	.1	.0	.0	.0	443	.4	10.9
-2	.0	*	2.0	10.1	3.2	.1	.0	.0	.0	605	.6	14.9
-3	.0	.1	1.5	6.1	1.1	.1	.0	.0	.0	349	.5	8.4
-4	.0	.1	2.2	4.5	.7	.1	.0	.0	.0	296	.4	7.2
-5	.0	.1	2.3	2.2	.3	.0	.0	.0	.0	192	.2	4.7
-6	.0	.1	1.3	1.4	.2	.0	*	.0	.0	119	.2	2.8
-7/-8	0	.1	1.0	.8	.1	.0	.0	.0	.0	80	.1	2.0
-9/-10	*	.1	.5	.2	.1	.0	.0	.0	.0	32	*	.8
-11/-13	.1	*	.1	.1	.1	.0	.0	.0	.0	13	*	.3
-14/-16	.0	*	*	*	*	.0	.0	.0	.0	4	.0	.1
-17/-19	.0	*	.0	.0	.0	.0	.0	.0	.0	1	.0	*
TOTAL	3		489		1239		57		7		132	3793
		28		1831		258		13		3925		
PCT	.1	.7	12.5	46.6	31.6	6.6	1.5	.3	.2	100.0	3.4	96.6

PERIOD: (OVER-ALL) 1963-1974

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.4	1.2	.1	.0	.0	.0	1.7
1-2	.5	5.8	2.5	.0	.0	.0	8.8
3-4	.0	2.9	4.2	.1	.0	.0	7.2
5-6	.2	.6	2.6	.3	.0	.0	3.7
7	.0	.4	.5	.2	.0	.0	1.1
8-9	.0	.1	.2	.2	.0	.0	.5
10-11	.0	.0	.2	.0	.0	.0	.2
12	.0	.0	.0	.2	.0	.0	.2
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.1	10.9	10.3	.9	.0	.0	23.3

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	.5	.1	.0	.0	.0	.8
1-2	.1	1.4	.4	.0	.0	.0	1.9
3-4	.0	.3	.6	.0	.0	.0	.9
5-6	.0	.1	.6	*	.0	.0	.7
7	.0	.1	.2	.0	.0	.0	.3
8-9	.0	.0	.1	.1	.0	.0	.2
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	2.4	2.0	.1	.0	.0	4.7

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.4	.1	.0	.0	.0	.0	.5
1-2	.0	.7	.0	.0	.0	.0	.7
3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.1	.0	.1	.0	.0	.1
7	.0	.0	.1	.1	.0	.0	.2
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.4	.9	.1	.1	.0	.0	1.5

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	.2	.1	.0	.0	.0	.5
1-2	.0	.4	.1	.0	.0	.0	.5
3-4	.0	.2	.3	.0	.0	.0	.5
5-6	.0	*	.1	.1	.0	.0	.2
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	.8	.6	.1	.0	.0	1.7

PERIOD: (OVER-ALL) 1963-1974

FEBRUARY

AREA 0030 BAJA
29.4N 116.6W

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

S

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.4	.3	.0	.0	.0	.0	.7
1-2	.2	.9	.1	.0	.0	.0	1.2
3-4	.0	.1	.4	.0	.0	.0	.5
5-6	.0	.0	.1	.0	.0	.0	.1
7	.0	.0	.2	.0	.0	.0	.2
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.6	1.3	.8	.0	.0	.0	2.7

SW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.4	.0	.0	.0	.0	.5
1-2	.2	1.3	.2	.0	.0	.0	1.6
3-4	.0	.3	.7	.0	.0	.0	1.0
5-6	.0	.0	.3	*	.0	.0	.4
7	.0	.0	.0	*	.0	.0	*
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	2.0	1.2	.1	.0	.0	3.5

W

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	.7	.0	.0	.0	.0	.9
1-2	.4	2.3	.5	.0	.0	.0	3.2
3-4	.1	.8	.9	.0	.0	.0	1.8
5-6	.0	.1	.6	.2	.0	.0	1.0
7	.0	.0	.1	.1	.0	.0	.2
8-9	.0	.1	.0	.1	.0	.0	.1
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.1	.0	.0	.1
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.7	4.0	2.1	.4	.0	.0	7.3

NW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.2	2.0	.1	.0	.0	.0	2.3	
1-2	.8	11.6	5.5	.0	.0	.0	17.9	
3-4	.2	4.4	11.0	.3	.0	.0	15.9	
5-6	*	2.0	5.5	.7	.0	.0	8.3	
7	.0	.3	2.7	.7	.1	.0	3.8	
8-9	.0	.1	.6	.5	.0	.0	1.1	
10-11	.0	.0	.1	.2	.0	.0	.3	
12	.1	.0	.1	.3	.0	.0	.5	
13-16	.0	.0	.1	.1	.0	.0	.2	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	1.3	20.3	25.7	2.9	.1	.0	50.2	95.1

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	7.4	5.5	.3	.0	.0	.0	13.3	
1-2	2.2	24.3	9.2	.0	.0	.0	35.8	
3-4	.3	8.8	18.1	.4	.0	.0	27.6	
5-6	.2	2.8	9.9	1.4	.0	.0	14.4	
7	.0	.7	3.7	1.2	.1	.0	5.7	
8-9	.0	.2	.9	.8	.0	.0	1.9	
10-11	.0	.0	.3	.2	.0	.0	.5	
12	.1	.0	.1	.5	.0	.0	.6	
13-16	.0	.0	.1	.2	.0	.0	.2	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	10.3	42.4	42.6	4.6	.1	.0	100.0	1250

PERIOD: (OVER-ALL) 1949-1974

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	3.8	14.1	15.7	6.9	3.0	.9	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1289	3
6-7	.2	1.8	8.1	8.2	3.2	1.7	.8	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	702	5
8-9	.0	1.0	2.1	3.8	3.5	1.1	.5	.4	.2	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	366	6
10-11	.0	1.2	1.2	2.3	1.0	.8	.5	.3	.3	.0	.0	.1	*	.0	.0	.0	.0	.0	.0	221	6
12-13	.0	.0	.6	.3	.5	.3	.1	.2	*	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	59	8
>13	.0	.0	.0	.3	.2	.4	.2	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	60	7
INDET	2.6	1.5	1.1	.9	.4	.3	*	.1	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	208	3
TOTAL	188	568	831	659	338	158	67	42	24	3	4	2	1	0	0	0	0	0	0	2885	4
PCT	6.5	19.7	28.8	22.8	11.7	5.5	2.3	1.5	.8	.1	.1	.1	*	.0	.0	.0	.0	.0	.0	100.0	

MARCH

PERIOD: (PRIMARY) 1950-1974
(OVER-ALL) 1875-1974

AREA 0030 BAJA
29.4N 115.5W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG	DUST BLWG SNOW	NO SIG WEA
N	.0	.2	.2	.0	.0	.0	.0	.4	.3	.1	1.8	.0	2.4		.1	95.0
NE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.3	.0	1.6		.0	96.1
E	1.7	.0	.0	.0	.0	.0	.0	1.7	2.3	.0	10.2	.0	4.5		.0	81.3
SE	2.3	.0	1.8	.0	.0	.0	.0	2.3	2.3	.0	.9	.0	3.7		.0	90.8
S	1.5	1.5	.9	.0	.0	.0	.0	3.9	3.6	.0	7.8	.0	1.7		.0	88.0
SW	2.8	2.6	1.2	.0	.0	.0	.0	6.7	2.8	1.0	.0	.0	2.4		.0	86.1
W	1.5	.4	1.1	.0	.0	.0	.0	2.9	.9	.8	1.7	.0	3.2		.0	90.5
NW	.1	.3	.3	.0	.0	.0	.0	.7	.5	.1	1.6	*	2.5		*	94.6
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	.0
CALM	1.0	.0	.0	.0	.0	.0	.0	1.0	.0	.0	7.7	.0	6.7		.0	84.6
TOT PCT	.4	.4	.4	.0	.0	.0	.0	1.1	.7	.2	1.9	*	2.6		*	93.6
TOT OBS:	4824															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG	DUST BLWG SNOW	NO SIG WEA
00&03	.2	.2	.5	.0	.0	.0	.0	.9	.6	.1	1.8	.0	3.4		.1	93.2
06&09	.5	.5	.3	.0	.0	.0	.0	1.1	.5	.3	2.1	.0	1.9		.0	94.2
12&15	.5	.3	.4	.0	.0	.0	.0	1.1	1.0	.4	1.8	.0	1.8		.0	93.9
18&21	.5	.4	.4	.0	.0	.0	.0	1.2	.6	.0	1.9	.1	3.0		.0	93.1
TOT PCT	.4	.3	.4	.0	.0	.0	.0	1.1	.7	.2	1.9	*	2.6		*	93.6
TOT OBS:	4871															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	.8	7.5	10.3	1.6	.1	.0		20.2	13.0	16.6	18.8	20.1	17.7	21.6	24.4	22.6	20.2
NE	.2	.9	.4	.1	*	.0		1.6	9.8	.8	2.2	1.6	.7	1.7	2.2	2.3	.7
E	.2	.4	.2	.1	*	.0		.9	9.3	.6	.7	.7	1.1	.9	.7	1.2	.4
SE	.2	.9	.3	.0	.0	.0		1.3	7.9	1.0	1.8	1.0	1.9	.9	2.2	1.6	2.7
S	.4	1.6	.5	.0	.0	.0		2.6	7.3	2.4	6.1	2.0	2.7	2.9	2.8	2.3	3.0
SW	.3	1.9	.3	.1	.0	.0		2.6	7.6	2.0	2.4	2.4	5.4	2.9	4.8	2.2	4.3
W	1.0	5.5	2.5	.3	.0	.0		9.3	9.5	10.0	11.6	9.0	13.0	8.2	10.0	8.7	10.9
NW	1.7	20.3	32.6	4.5	.2	.0		59.2	13.4	65.0	52.8	60.4	56.5	58.2	50.9	56.7	54.2
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	2.3							2.3	.0	1.5	3.7	2.7	1.1	2.7	2.0	2.4	3.6
TOT OBS	376	2067	2492	347	13	0	5295		12.2	1239	136	991	186	1025	203	1290	225
TOT PCT	7.1	39.0	47.1	6.6	.2	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	3.1	11.5	5.3	.3	.0		20.2	13.0	16.8	19.8	22.0	22.2
NE	.6	.8	.2	*	.0		1.6	9.8	.9	1.5	1.8	2.1
E	.4	.4	.1	*	.0		.9	9.3	.7	.7	.9	1.1
SE	.5	.8	*	.0	.0		1.3	7.9	1.1	1.2	1.1	1.7
S	1.3	1.2	*	.0	.0		2.6	7.3	2.8	2.1	2.9	2.4
SW	1.3	1.2	.1	*	.0		2.6	7.6	2.0	2.9	3.2	2.5
W	3.4	4.8	1.1	.1	.0		9.3	9.5	10.2	9.6	8.5	9.0
NW	7.7	34.7	15.8	1.0	.0		59.2	13.4	63.8	59.8	57.0	56.3
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	2.3						2.3	.0	1.7	2.5	2.6	2.6
TOT OBS	1091	2930	1200	74	0	5295		12.2	1375	1177	1228	1515
TOT PCT	20.6	55.3	22.7	1.4	.0		100.0		100.0	100.0	100.0	100.0

MARCH

PERIOD: (PRIMARY) 1950-1974
(OVER-ALL) 1879-1974

TABLE 4

AREA 0030 BAJA
29.4N 116.5W

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	1.7	3.3	36.7	49.8	8.1	.3	.0	12.8	100.0	1375
06&09	2.3	4.6	37.1	48.9	6.6	.3	.0	12.4	100.0	1177
12&15	2.6	5.5	39.7	46.2	5.7	.2	.0	11.9	100.0	1228
18&21	2.6	5.6	42.0	43.8	5.7	.2	.0	11.6	100.0	1515
TOT	124	292	2067	2492	347	13	0	12.2		5295
PCT	2.3	4.8	39.0	47.1	6.6	.2	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	8.4	3.5	5.4	3.2		3.7
NE	.9	.3	.4	.1		2.6
E	.4	.1	.2	.2		3.6
SE	.2	.1	.4	.3		5.3
S	.5	.2	.7	.6		5.0
SW	.5	.4	.8	.5		5.0
W	2.5	1.4	3.2	2.0		4.7
NW	19.3	10.8	18.3	11.9		4.3
VAR	.0	.0	.0	.0		.0
CALM	.7	.4	.4	.6		4.1
TOT OBS	1240	639	1101	721	3701	4.2
TOT PCT	33.5	17.3	29.7	19.5	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.2	.0	.2	1.1	2.0	1.6	.7	.1	.1	.2	14.4	
NE	.0	.0	*	.1	*	*	.1	*	.0	.0	1.5	
E	*	.0	*	.1	.1	.0	*	*	*	.0	.5	
SE	*	.0	*	.2	.1	.1	*	.0	.0	.1	.5	
S	*	.0	.1	.2	.3	.3	*	.1	.0	.0	1.0	
SW	*	*	.1	.2	.3	.2	.2	.1	*	.0	1.2	
W	.2	.0	.1	.7	1.6	.7	.2	.1	.1	.1	5.3	
NW	.5	.3	.9	4.2	9.1	5.5	1.9	.5	.3	.2	36.9	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.1	.0	.0	.2	.3	.1	.1	*	*	.0	1.3	
TOT OBS	38	13	55	256	513	313	121	31	19	20	2322	3701
TOT PCT	1.0	.4	1.5	6.9	13.9	8.5	3.3	.8	.5	.5	62.7	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM) * OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >50YD	* OR >0
* OR >6500	.8	1.0	1.0	1.0	1.0	1.0	1.0	1.0
* OR >5000	1.6	1.8	1.9	1.9	1.9	1.9	1.9	1.9
* OR >3500	4.3	5.1	5.2	5.2	5.2	5.2	5.2	5.2
* OR >2000	11.4	13.5	13.6	13.6	13.6	13.6	13.6	13.6
* OR >1000	23.4	27.3	27.6	27.6	27.6	27.6	27.6	27.6
* OR >600	29.7	34.0	34.5	34.5	34.5	34.5	34.5	34.5
* OR >300	29.5	35.4	35.9	35.9	35.9	35.9	35.9	35.9
* OR >150	29.8	35.7	36.3	36.3	36.3	36.3	36.3	36.3
* OR > 0	30.0	36.2	36.8	37.0	37.1	37.1	37.3	37.3
TOTAL	1118	1346	1371	1375	1380	1382	1387	1389

TOTAL NUMBER OF OBS: 3721

PCT FREQ NH <5/8: 62.7

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
24.6	8.9	10.4	9.2	8.3	5.8	8.5	9.1	14.6	.6	4010

MARCH

PERIOD: (PRIMARY) 1950-1974
(OVER-ALL) 1875-1974

TABLE 8

AREA 0030 BAJA
29.4N 116.5W

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.1	*	*	.0	*	*	*	.1	.0	.0	.3	
	TOT %	.1	*	*	.0	*	*	*	.1	.0	.0	.3	
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	*	.0	*	.0	.0	.0	.0	.1	.0	*	.1	
	TOT %	*	.0	*	.0	.0	.0	.0	.1	.0	*	.1	
1<2	PCP	.0	.0	.0	.0	.0	.0	*	.0	.0	.0	*	
	NO PCP	.0	.0	.0	*	*	.0	*	.1	.0	*	.2	
	TOT %	.0	.0	.0	*	*	.0	*	.1	.0	*	.2	
2<5	PCP	.0	.0	.0	.0	.0	.0	*	*	.0	.0	.1	
	NO PCP	.1	*	*	.0	*	.0	.2	.7	.0	.1	1.1	
	TOT %	.1	*	*	.0	*	.0	.2	.7	.0	.1	1.2	
5<10	PCP	.1	.0	.0	.0	*	.1	.1	.2	.0	*	.5	
	NO PCP	2.2	.1	.2	.1	.6	.6	1.2	6.5	.0	.4	11.9	
	TOT %	2.3	.1	.2	.1	.6	.7	1.3	6.7	.0	.4	12.4	
10+	PCP	*	.0	*	*	.1	.1	.2	.1	.0	.0	.5	
	NO PCP	17.4	1.4	.6	1.0	1.7	1.8	7.8	52.0	.0	1.6	85.3	
	TOT %	17.4	1.4	.6	1.0	1.8	1.9	7.9	52.1	.0	1.6	85.7	
	TOT OBS												4808
	TOT PCT	20.0	1.6	.9	1.1	2.4	2.6	9.9	59.8	.0	2.1	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	*	.0	.0	.0	*	.0	*	*	.0	.0	.1	
	4-10	*	*	*	*	*	*	*	.1	.0		.3	
	11-21	.1	.0	.0	.0	.0	*	*	*	.0		.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.1	*	*	*	.1	*	*	.2	.0	.0	.5	
1/2<1	0-3	.0	.0	*	.0	.0	.0	.0	.0	.0	*	*	
	4-10	*	.0	.0	.0	.0	.0	.0	*	.0		*	
	11-21	*	.0	.0	.0	.0	.0	.0	.1	.0		.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	*	.0	*	.0	.0	.0	.0	.1	.0	*	.2	
1<2	0-3	.0	.0	.0	.0	.0	.0	*	*	.0	*	.1	
	4-10	.0	.0	.0	*	*	.0	.0	.1	.0		.1	
	11-21	.0	.0	.0	.0	*	.0	*	.1	.0		.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	*	*	.0	.1	.2	.0	*	.3	
2<5	0-3	*	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	
	4-10	.2	*	*	.0	*	*	.2	.5	.0		.9	
	11-21	*	.0	.0	.0	.0	.0	*	.4	.0		.5	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.2	*	*	.0	*	*	.2	.9	.0	.1	1.5	
5<10	0-3	.1	.0	*	*	.1	*	.1	.4	.0	.4	1.3	
	4-10	.8	.1	.1	.1	.3	.4	.8	2.7	.0		5.4	
	11-21	1.2	.0	*	*	.2	.1	.4	3.1	.0		5.1	
	22+	.1	.0	.0	.0	.0	*	*	.4	.0		.6	
	TOT %	2.2	.1	.2	.2	.6	.6	1.3	6.7	.0	.4	12.3	
10+	0-3	.6	.2	.1	.1	.3	.3	.8	1.1	.0	1.5	4.9	
	4-10	6.3	.7	.3	.8	1.2	1.4	4.6	16.9	.0		32.2	
	11-21	9.0	.4	.2	.2	.3	.2	2.1	29.6	.0		41.8	
	22+	1.6	.1	.1	.0	.0	*	.3	4.3	.0		6.4	
	TOT %	17.5	1.3	.6	1.1	1.9	1.9	7.8	51.7	.0	1.5	85.3	
	TOT OBS												5100
	TOT PCT	20.1	1.5	.8	1.3	2.5	2.6	9.4	59.7	.0	2.1	100.0	

PERIOD: (PRIMARY) 1950-1974
(OVER-ALL) 1875-1974

AREA 0030 BAJA
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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET,NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00&03	.7	.6	1.3	5.7	11.6	8.3	3.3	.9	.7	.4	33.6	66.4	1076
06&09	.6	.1	1.2	6.7	13.6	6.4	2.6	.5	.1	.7	32.4	67.6	854
12&15	1.1	.2	2.2	7.0	15.2	8.3	2.7	.9	.5	.4	38.5	61.5	811
18&21	1.4	.4	1.2	7.4	14.0	9.5	3.9	1.0	.5	.6	40.0	60.0	1115
TOT	38	14	55	257	520	317	124	32	19	20	1396	2460	3856
PCT	1.0	.4	1.4	6.7	13.5	8.2	3.2	.8	.5	.5	36.2	63.8	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00&03	.0	.2	.4	1.4	10.0	88.0	1326
06&09	.7	.0	.3	1.9	13.9	83.2	1155
12&15	.7	.1	.2	1.1	15.6	82.4	1190
18&21	.5	.3	.3	1.7	10.3	86.9	1475
TOT	24	8	15	78	631	4390	5146
PCT	.5	.2	.3	1.5	12.3	85.3	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET,NH >4/8),BY HOUR

HOUR (GMT)	<150 <3OYD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	.8	2.7	8.9	25.9	69.2	1037
06&09	.6	2.1	9.8	24.5	65.7	825
12&15	1.3	3.9	11.5	28.5	60.1	786
18&21	1.5	3.3	11.3	30.0	58.7	1073
TOT	39	111	384	1017	2320	3721
PCT	1.0	3.0	10.3	27.3	62.3	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
75/79	.0	*	*	.1	.0	.0	.0	.0	4	.1
70/74	.0	*	.1	.2	.4	.2	.1	*	37	1.0
65/69	.0	.0	.2	1.1	1.9	3.0	1.9	.9	344	8.9
60/64	.0	.1	.4	1.9	9.2	13.6	12.5	2.9	1566	40.6
55/59	.0	.1	.3	1.0	7.1	14.9	17.5	5.6	1797	46.5
50/54	.0	.0	*	.2	.5	.6	1.1	.4	113	2.9
TOTAL	0	6	37	171	740	1247	1281	379	3861	100.0
PCT	.0	.2	1.0	4.4	19.2	32.3	33.2	9.8		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
*	.0	.0	.0	.0	.0	*	*	.0	*
.2	.1	*	.0	*	.0	.0	.6	.0	*
1.6	.2	.2	.1	.3	.3	.8	5.4	.0	.1
8.4	.6	.2	.5	.9	1.1	3.9	23.8	.0	1.1
9.2	.6	.3	.5	1.1	.8	3.9	29.0	.0	1.0
.7	.1	.1	.0	.0	.1	.4	1.6	.0	.1
20.2	1.7	.8	1.1	2.2	2.3	9.1	60.3	.0	2.3

TABLE 15

MEANS,EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00&03	77	72	68	61	56	54	48	61.5	1372
06&09	71	66	63	58	55	52	49	58.6	1178
12&15	74	69	63	58	54	52	50	58.0	1237
18&21	75	70	68	61	56	54	48	61.1	1508
TOT	77	70	66	60	55	52	48	59.9	5295

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00&03	.0	7.6	23.1	34.1	27.5	7.7	75	1055
06&09	.0	2.7	14.8	31.2	39.3	12.0	79	884
12&15	.0	2.6	14.0	30.6	40.1	12.7	80	376
18&21	.0	8.2	22.7	32.9	28.0	8.2	75	1085
TOT	0	216	744	1261	1292	387	77	3900

MARCH

PERIOD: (PRIMARY) 1950-1974
(OVER-ALL) 1875-1974

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29.4N 116.5W

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	49 52	53 56	57 60	61 64	65 68	69 72	73 76	77 80	TOT	W FOG	WO FOG
17/19	.0	.0	.0	.0	.0	.0	*	*	2	.0	*
14/16	.0	.0	.0	*	*	.1	.1	.0	9	.0	.2
11/13	.0	.0	*	.1	.1	.3	.1	.0	28	.0	.6
9/10	.0	.0	*	.1	.6	.4	.0	.0	48	.0	1.1
7/8	.0	*	.1	.5	1.1	.5	*	.0	103	.1	2.2
6	.0	.0	*	.5	1.0	.1	.0	.0	75	.1	1.5
5	.0	.0	.3	1.0	1.4	.1	*	.0	128	.1	2.8
4	.0	*	.5	2.3	1.2	*	.0	.0	184	.1	4.0
3	.0	.1	.8	2.8	1.2	.1	.0	.0	226	.1	4.9
2	*	.2	2.6	5.2	.6	.0	.0	.0	387	.1	8.4
1	.0	.3	3.6	4.3	.2	.0	.0	.0	384	.2	8.3
0	.0	1.0	9.6	5.9	.2	.0	.0	.0	755	.4	16.3
-1	*	1.0	7.9	2.2	.1	.0	.0	.0	506	.1	11.1
-2	.1	2.3	9.3	2.2	*	.0	.0	.0	623	.2	13.6
-3	.0	2.7	4.7	.9	*	*	.0	.0	374	.2	8.1
-4	.2	2.6	3.9	.6	*	.0	.0	.0	328	.1	7.2
-5	.1	1.4	1.4	.1	*	*	.0	.0	138	.1	3.0
-6	.1	.9	1.0	.1	.0	.0	.0	.0	92	*	2.0
-7/-8	.2	1.0	.8	*	.0	.0	.0	.0	91	.0	2.0
-9/-10	*	.2	.2	.1	*	.0	.0	.0	22	.0	.5
-11/-13	.0	.1	.1	*	.0	.0	.0	.0	9	.0	.2
-14/-16	.0	.0	.0	*	.0	.0	.0	.0	1	.0	*
TOTAL	37	615	2108	1313	359	70	10	1	4513	82	4424
PCT	.8	13.6	46.7	29.1	8.0	1.6	.2	*	100.0	2.0	98.0

PERIOD: (OVER-ALL) 1963-1974

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.4	.8	.0	.0	.0	.0	1.2
1-2	.1	4.2	1.3	.0	.0	.0	5.6
3-4	.0	1.9	3.7	.4	.0	.0	6.0
5-6	.0	.3	3.1	.4	.0	.0	3.9
7	.0	.1	1.7	.3	.0	.0	2.1
8-9	.0	.0	.7	.4	.1	.0	1.1
10-11	.0	.0	.2	.2	.0	.0	.4
12	.0	.0	.1	.1	.0	.0	.2
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.6	7.3	10.7	1.9	.1	.0	20.5

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.1	.0	.0	.0	.0	.2
1-2	.1	.5	.1	.0	.0	.0	.7
3-4	.0	.2	.2	.0	.0	.0	.4
5-6	.0	.1	.1	.0	.0	.0	.3
7	.0	.0	.1	.0	.0	.0	.1
8-9	.0	.0	.2	.0	*	.0	.2
10-11	.0	.0	.1	.1	.0	.0	.1
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	.8	.5	.1	*	.0	1.6

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.2	.0	.0	.0	.0	.3
1-2	.1	.1	.1	.0	.0	.0	.2
3-4	.1	.0	.1	.0	.0	.0	.1
5-6	.0	.0	.0	.1	.0	.0	.1
7	.0	.0	.1	.0	.0	.0	.1
8-9	.0	.0	.0	.1	.1	.0	.1
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	.3	.2	.1	.1	.0	.9

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.1	.1	.0	.0	.0	.2
1-2	.0	.3	.1	.0	.0	.0	.6
3-4	.0	.1	.1	.0	.0	.0	.2
5-6	.0	.0	.1	.0	.0	.0	.1
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.1	.7	.3	.0	.0	.0	1.0

PERIOD: (OVER-ALL) 1963-1974

MARCH

TABLE 18 (CONT)

AREA 0030 BAJA 29.4N 116.5W

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

	S							SW						
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.3	.1	.0	.0	.0	.5	.0	.3	.0	.0	.0	.0	.3
1-2	.0	.2	.1	.0	.0	.0	.3	.1	.4	.2	.0	.0	.0	.7
3-4	.0	.3	.1	.0	.0	.0	.4	.0	.6	.0	.0	.0	.0	.6
5-6	.0	.0	.1	.0	.0	.0	.1	.0	.0	.0	.1	.0	.0	.1
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	.0	.0	.0	*
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.1	.8	.4	.0	.0	.0	1.3	.1	1.3	.2	.1	.0	.0	1.6

	W							NW							TOTAL
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	PCT
<1	.3	.5	.0	.0	.0	.0	.8	.4	1.5	.1	.0	.0	.0	2.0	
1-2	.5	3.0	.5	.0	.0	.0	4.0	.2	8.1	4.8	.0	.0	.0	13.0	
3-4	.1	1.5	1.2	.3	.0	.0	3.0	.1	5.7	14.1	1.6	.0	.0	21.5	
5-6	.1	.3	.9	.2	.0	.0	1.4	.0	1.4	10.4	1.7	.0	.0	13.5	
7	.0	.0	.3	.1	.0	.0	.4	.0	.3	4.9	1.1	.1	.0	6.4	
8-9	.0	.0	.1	.1	.0	.0	.1	.0	.0	1.4	.6	*	.0	2.0	
10-11	.0	.0	.1	.0	.0	.0	.1	.0	.0	.8	.7	.1	.0	1.6	
12	.0	.0	.1	.0	.0	.0	.1	.0	.0	.2	.1	.0	.0	.3	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.0	.0	.0	.3	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.1	.0	.1	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.1	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	1.0	5.2	3.1	.6	.0	.0	9.9	.7	17.0	36.9	5.8	.4	.0	60.8	97.9

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	3.9	4.0	.2	.0	.0	.0	8.1	
1-2	1.0	16.8	7.1	.0	.0	.0	24.9	
3-4	.3	10.1	19.4	2.2	.0	.0	32.1	
5-6	.1	2.1	14.5	2.4	.0	.0	19.2	
7	.0	.4	7.1	1.6	.1	.0	9.1	
8-9	.0	.0	2.3	1.1	.1	.0	3.5	
10-11	.0	.0	1.1	1.0	.1	.0	2.2	
12	.0	.0	.3	.2	.0	.0	.5	
13-16	.0	.0	.3	.0	.0	.0	.3	
17-19	.0	.0	.1	.0	.1	.0	.1	
20-22	.0	.0	.0	.0	.1	.0	.1	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	5.2	33.4	52.3	8.5	.5	.0	100.0	1471

PERIOD: (OVER-ALL) 1949-1974

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	2.9	11.4	14.8	7.8	3.2	1.2	.1	.1	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1449	4
6-7	.1	1.5	7.0	8.8	5.9	2.9	1.6	.4	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	976	6
8-9	.1	.6	1.6	3.6	3.4	2.3	.9	.6	.5	.1	*	.0	.0	.0	.0	.0	.0	.0	.0	469	7
10-11	.0	.6	.7	1.3	.9	.8	.8	.4	.2	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	194	7
12-13	.0	.0	.4	.4	.4	.2	.4	.3	.3	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	86	8
>13	.0	.0	.0	.3	.2	.1	.2	*	.1	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	32	8
INDET	2.3	1.3	.8	1.0	.4	.2	.1	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	213	3
TOTAL	182	528	868	794	487	268	161	64	53	13	1	0	0	0	0	0	0	0	0	3419	5
PCT	5.3	15.4	25.4	23.2	14.2	7.8	4.7	1.9	1.6	.4	*	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

APRIL

PERIOD: (PRIMARY) 1950-1974
(OVER-ALL) 1870-1974

AREA 0030 BAJA
29.4N 116.6W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	.2	.1	.0	.0	.0	.0	.0	.3	.2	.0	2.2	.0	2.5	.1		94.7
NE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		100.0
E	.0	.0	5.7	.0	.0	.0	.0	5.7	5.7	.0	4.3	.0	.0	.0		84.3
SE	3.0	.0	.0	.0	.0	.0	.0	3.0	.0	.0	4.5	.0	6.7	.0		85.8
S	.6	1.8	3.2	.0	.0	.0	.0	5.6	3.2	.0	1.5	.0	2.9	.0		86.8
SW	.4	1.1	.9	.0	.0	.0	.0	2.6	1.1	.7	3.1	.0	2.7	.0		90.0
W	.2	.4	.3	.0	.0	.0	.0	.9	.9	.0	2.1	.2	3.6	.0		92.1
NW	.1	*	.1	.0	.0	.0	.0	.2	.4	.0	2.1	.2	3.6	*		93.6
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0
CALM	.0	1.3	.0	.0	.0	.0	.0	1.3	.0	.0	9.0	1.3	10.3	.0		78.2
TOT PCT	.1	.2	.2	.0	.0	.0	.0	.5	.5	*	2.2	.1	3.5	*		93.0
TOT OBS:	4713															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00&03	.2	.2	.2	.0	.0	.0	.0	.5	.2	.0	1.8	.2	5.1	.0		92.2
06&09	.0	.3	.3	.0	.0	.0	.0	.6	.4	.0	1.5	.1	3.0	.1		94.4
12&15	.2	.1	.4	.0	.0	.0	.0	.7	.6	.1	2.4	.1	2.1	.0		94.0
18&21	.2	.1	.1	.0	.0	.0	.0	.4	.7	.0	3.3	.2	3.4	.0		92.0
TOT PCT	.1	.2	.2	.0	.0	.0	.0	.5	.5	*	2.3	.1	3.5	*		93.1
TOT OBS:	4749															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	.4	4.8	8.3	.9	*	.0		14.4	13.2	11.9	14.7	13.5	13.8	15.0	18.6	16.7	15.9
NE	.1	.3	.1	*	.0	.0		.5	9.9	.1	.0	.6	.6	.9	.6	.5	.8
E	.1	.2	*	*	.0	.0		.3	7.0	.2	.0	.4	.6	.5	.0	.4	.0
SE	.2	.4	.1	.0	.0	.0		.7	6.1	.7	1.3	.2	.3	.8	.0	1.1	.5
S	.3	1.0	.4	*	*	.0		1.7	8.4	1.6	.8	2.4	1.3	1.3	1.2	1.9	.3
SW	.4	2.0	.6	*	*	.0		3.1	7.8	2.9	2.8	3.1	3.1	3.2	4.3	2.8	3.9
W	.7	6.4	3.8	.2	.0	.0		11.2	9.8	12.1	12.8	11.1	13.0	11.2	8.1	10.1	12.5
NW	.9	22.7	38.5	4.1	.2	.0		66.3	13.4	69.1	66.0	67.3	65.5	64.6	66.6	64.5	63.9
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.7							1.7	.0	1.4	1.5	1.4	1.9	2.3	.6	2.0	2.1
TOT OBS	249	1925	2641	273	10	0	5098		12.4	1301	133	976	160	930	173	1235	190
TOT PCT	4.9	37.8	51.8	5.4	.2	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	1.7	8.8	3.8	.1	.0		14.4	13.2	12.1	13.5	15.6	16.6
NE	.2	.3	.1	.0	.0		.5	9.9	.1	.6	.8	.5
E	.2	.1	*	.0	.0		.3	7.0	.2	.5	.4	.3
SE	.5	.2	*	.0	.0		.7	6.1	.7	.2	.7	1.0
S	.9	.8	.1	*	.0		1.7	8.4	1.6	2.2	1.5	1.7
SW	1.4	1.5	.1	*	.0		3.1	7.8	2.9	3.1	3.4	2.9
W	3.4	6.7	1.1	.1	.0		11.2	9.8	12.2	11.4	10.7	10.4
NW	6.8	41.5	17.0	1.0	.0		66.3	13.4	68.8	67.0	64.9	64.4
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	1.7						1.7	.0	1.4	1.5	2.0	2.0
TOT OBS	856	3052	1130	60	0	5098		12.4	1434	1136	1103	1425
TOT PCT	16.8	59.9	22.2	1.2	.0		100.0		100.0	100.0	100.0	100.0

APRIL

PERIOD: (PRIMARY) 1950-1974
(OVER-ALL) 1870-1974

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS) 11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	1.4	3.3	35.8	53.1	6.1	.3	.0	12.8	100.0	1434
06&09	1.5	2.4	37.2	53.0	5.7	.2	.0	12.6	100.0	1136
12&15	2.0	2.6	35.6	53.9	5.6	.2	.0	12.7	100.0	1103
18&21	2.0	4.1	41.8	47.9	4.1	.1	.0	11.8	100.0	1425
TOT	86	161	1925	2641	278	10	0	12.4		5098
PCT	1.7	3.2	37.8	51.8	5.4	.2	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	5.5	2.1	3.7	3.2		4.1
NE	.2	.1	.1	.1		3.7
E	.1	*	.1	.2		5.8
SE	.1	.1	.1	.3		5.2
S	.3	.4	.4	.7		5.6
SW	.5	.4	.9	.9		5.5
W	2.8	1.5	3.2	3.7		5.1
NW	19.8	10.2	20.4	16.1		4.6
VAR	.0	.0	.0	.0		.0
CALM	.6	.2	.3	.6		4.6
TOT OBS	1075	540	1039	934	3608	4.6
TOT PCT	29.8	15.0	29.4	25.9	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.1	*	.2	.8	1.9	1.7	.8	.1	.1	.1	9.0	
NE	.0	.0	.0	*	.1	*	*	.0	.0	.0	.4	
E	*	.0	.0	*	*	.1	*	.0	*	*	.2	
SE	*	.0	.1	*	.1	.1	*	*	.0	.0	.4	
S	.0	.0	*	.1	.5	.2	.1	.0	.0	.0	.8	
SW	.1	.0	.1	.3	.5	.5	.2	*	.0	.0	1.1	
W	.1	*	.4	.9	2.1	1.6	.7	.2	.1	.1	5.1	
NW	.6	.3	1.8	5.2	11.6	7.2	2.0	.5	.4	.4	28.4	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.1	*	.0	.2	.2	.2	*	*	.0	.0	.9	
TOT OBS	40	14	93	275	607	417	131	31	18	22	1960	3608
TOT PCT	1.1	.4	2.6	7.6	16.8	11.6	3.6	.9	.5	.6	54.3	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM) * OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >50YD	* OR >0
* OR >6500	.7	1.0	1.1	1.1	1.1	1.1	1.1	1.1
* OR >5000	1.4	1.9	1.9	1.9	1.9	1.9	1.9	1.9
* OR >3500	4.7	5.5	5.6	5.6	5.6	5.6	5.6	5.6
* OR >2000	14.3	17.0	17.2	17.2	17.2	17.2	17.2	17.2
* OR >1000	28.3	33.8	34.1	34.1	34.1	34.1	34.1	34.1
* OR >600	33.6	41.1	41.7	41.7	41.7	41.7	41.7	41.7
* OR >300	35.2	43.3	44.2	44.2	44.3	44.3	44.3	44.3
* OR >150	35.4	43.6	44.6	44.6	44.6	44.6	44.6	44.6
* OR > 0	35.7	44.2	45.2	45.3	45.3	45.4	45.6	45.7
TOTAL	1291	1601	1637	1639	1641	1642	1649	1654

TOTAL NUMBER OF OBS: 3620

PCT FREQ NH <5/8: 54.3

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
18.6	8.9	9.8	8.2	7.7	5.8	8.7	11.1	20.2	.8	3840

APRIL

PERIOD: (PRIMARY) 1950-1974
(OVER-ALL) 1870-1974

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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	PCP	.0	.0	.0	.0	.0	.0	.0	*	.0	.0	*	
<1/2	NO PCP	.1	.0	.0	.0	.0	*	*	.2	.0	.1	.4	
	TOT %	.1	.0	.0	.0	.0	*	*	.2	.0	.1	.4	
	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	NO PCP	*	.0	*	*	*	*	.0	.1	.0	*	.2	
	TOT %	*	.0	*	*	*	*	.0	.1	.0	*	.2	
	PCP	.0	.0	.0	.0	.0	.0	.0	*	.0	.0	*	
1<2	NO PCP	*	.0	.0	*	.0	.0	*	*	.0	*	.1	
	TOT %	*	.0	.0	*	.0	.0	*	*	.0	*	.1	
	PCP	.0	.0	.0	.0	*	*	*	*	.0	.0	*	
2<5	NO PCP	.2	*	.0	.0	*	.1	.2	1.2	.0	*	1.8	
	TOT %	.2	*	.0	.0	*	.1	.2	1.2	.0	*	1.8	
	PCP	*	.0	*	.0	.1	*	.1	*	.0	.0	.3	
5<10	NO PCP	2.1	*	.1	.2	.4	.6	1.7	10.4	.0	.3	15.7	
	TOT %	2.1	*	.1	.2	.5	.6	1.7	10.4	.0	.3	16.0	
	PCP	.0	.0	.0	*	*	*	*	.1	.0	*	.2	
10+	NO PCP	11.8	.5	.2	.5	1.3	2.1	9.3	54.5	.0	1.2	81.3	
	TOT %	11.8	.5	.2	.5	1.3	2.2	9.3	54.6	.0	1.2	81.5	
	TOT OBS												4702
	TOT PCT	14.3	.5	.4	.7	1.8	2.9	11.2	66.6	.0	1.7	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	0-3	*	.0	.0	.0	.0	*	.0	*	.0	.1	.1	
<1/2	4-10	*	.0	.0	.0	.0	.0	*	.2	.0		.3	
	11-21	*	.0	.0	.0	.0	.0	.0	.1	.0		.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.1	.0	.0	.0	.0	*	*	.3	.0	.1	.5	
	0-3	.0	.0	.0	.0	*	*	.0	.0	.0	*	*	
1/2<1	4-10	*	.0	*	*	.0	.0	*	.1	.0		.1	
	11-21	.0	.0	.0	.0	.0	.0	.0	.1	.0		.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	*	.0	*	*	*	*	*	.2	.0	*	.2	
	0-3	.0	.0	.0	*	.0	.0	.0	.0	.0	*	*	
1<2	4-10	*	.0	.0	.0	.0	.0	*	.1	.0		.2	
	11-21	.0	.0	.0	.0	.0	.0	.0	*	.0		*	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	*	.0	.0	*	.0	.0	*	.1	.0	*	.2	
	0-3	*	*	.0	.0	.0	*	.0	.1	.0	*	.2	
2<5	4-10	.1	.0	.0	.0	*	.1	.1	.6	.0		1.0	
	11-21	.2	.0	.0	.0	.0	.0	.1	.7	.0		1.0	
	22+	*	*	.0	.0	.0	.0	.0	.0	.0		*	
	TOT %	.3	*	.0	.0	*	.1	.2	1.4	.0	*	2.2	
	0-3	.0	.0	*	*	*	.1	.2	.1	.0	.3	.8	
5<10	4-10	.9	*	*	.1	.2	.3	1.0	4.5	.0		7.1	
	11-21	1.1	*	*	*	.1	.2	.6	5.0	.0		7.1	
	22+	.2	*	*	.0	*	*	*	.4	.0		.7	
	TOT %	2.1	*	.1	.2	.4	.6	1.7	10.1	.0	.3	15.6	
	0-3	.4	.1	.1	.1	.2	.2	.5	.7	.0	1.3	3.5	
10+	4-10	3.7	.1	.1	.3	.7	1.6	5.3	16.9	.0		28.8	
	11-21	7.1	.1	.0	.1	.2	.3	3.2	33.1	.0		44.1	
	22+	.7	*	.0	.0	*	*	.2	3.8	.0		4.7	
	TOT %	11.8	.4	.2	.5	1.2	2.2	9.2	54.4	.0	1.3	81.3	
	TOT OBS												4913
	TOT PCT	14.4	.5	.4	.7	1.7	2.9	11.2	66.5	.0	1.7	100.0	

APRIL

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(OVER-ALL) 1870-1974

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00&03	.9	.2	2.2	6.8	14.9	10.2	3.5	.8	.4	.3	40.1	59.9	1116
06&09	.6	.2	1.9	7.1	13.9	9.7	3.1	.6	.4	.8	38.5	61.5	832
12&15	1.3	.6	3.4	8.1	18.5	13.3	3.2	1.0	1.0	.8	51.3	48.7	712
18&21	1.5	.6	2.7	8.0	18.9	12.6	4.3	.9	.4	.6	50.4	49.6	1056
TOT	40	14	93	277	614	423	133	31	18	22	1665	2051	3716
PCT	1.1	.4	2.5	7.5	16.5	11.4	3.6	.8	.5	.6	44.8	55.2	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00&03	.1	.2	.1	2.0	15.3	82.2	1376
06&09	.5	.3	.1	1.9	15.4	81.8	1114
12&15	.6	.5	.4	2.2	17.4	79.0	1062
18&21	.8	.1	.3	2.4	14.8	81.6	1399
TOT	24	12	11	106	775	4023	4951
PCT	.5	.2	.2	2.1	15.7	81.3	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET, NH >4/8), BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	.9	3.3	11.1	30.2	58.7	1087
06&09	.6	3.0	10.9	28.9	60.2	807
12&15	1.3	5.4	13.7	38.3	48.0	700
18&21	1.5	4.8	13.7	38.3	48.0	1026
TOT	39	147	446	1222	1952	3620
PCT	1.1	4.1	12.3	33.8	53.9	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
80/84	.0	.0	.0	*	.0	.0	.0	.0	1	*
75/79	*	.0	*	.1	*	*	.1	.0	8	.2
70/74	.0	.0	.1	.2	.8	.4	.1	.2	64	1.7
65/69	.0	*	.1	.5	1.8	3.3	2.5	.7	336	8.9
60/64	.0	*	.1	1.4	8.0	17.4	16.7	4.7	1835	48.4
55/59	.0	.0	.1	.7	3.4	12.1	16.9	6.5	1511	39.8
50/54	.0	.0	.0	*	.1	.3	.2	.4	40	1.1
TOTAL	1	2	11	111	538	1273	1384	475	3795	100.0
PCT	*	.1	.3	2.9	14.2	33.5	36.5	12.5		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.0	.0	.0	.0	.0	*	.0	.0
.1	*	.0	.0	.0	.0	.0	.1	.0	.0
.3	*	.0	.1	.1	*	.2	1.1	.0	.0
1.3	*	*	.1	.2	.4	.8	5.8	.0	.2
7.1	.2	.3	.3	1.0	1.5	5.3	31.8	.0	.9
5.6	.1	.1	.2	.4	.8	4.6	27.6	.0	.4
.1	*	.0	.0	.0	.1	.1	.8	.0	*
14.3	.4	.4	.7	1.7	2.8	11.0	67.3	.0	1.5

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00&03	80	73	69	62	57	55	51	62.2	1420
06&09	71	66	63	59	55	54	50	59.2	1137
12&15	76	65	63	58	55	53	50	58.6	1099
18&21	76	72	68	61	57	55	53	61.8	1425
TOT	80	71	67	60	56	54	50	60.7	5081

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00&03	.0	3.7	19.4	34.6	32.8	9.5	77	1099
06&09	.0	1.2	9.4	30.1	42.1	17.1	82	869
12&15	.1	2.5	8.6	31.7	40.8	16.3	81	802
18&21	.0	5.2	17.1	36.3	32.6	8.7	77	1032
TOT	1	126	544	1278	1397	476	79	3822

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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	49 52	53 56	57 60	61 64	65 68	69 72	73 76	77 80	TOT	W FOG	WO FOG
20/22	.0	.0	.0	*	.0	.0	.0	.0	1	.0	*
17/19	.0	.0	.0	*	.0	.1	.0	*	5	.0	.1
14/16	.0	.0	.0	.0	.0	.0	.2	.1	12	.0	.3
11/13	.0	*	.0	.1	*	.2	.1	*	23	.0	.5
9/10	.0	.0	*	.2	.4	.8	.1	.0	67	*	1.5
7/8	.0	*	.2	.4	1.0	.6	.0	.0	99	.0	2.3
6	.0	.0	.1	.5	1.0	.2	.0	.0	72	*	1.6
5	.0	*	.2	1.3	1.2	.1	.0	.0	123	.1	2.7
4	.0	*	.5	3.0	1.5	.1	.0	.0	223	*	5.1
3	.0	.1	.8	3.1	1.2	*	.0	.0	225	.1	5.1
2	.0	*	2.2	5.4	1.0	*	.0	.0	375	.2	8.4
1	.0	.1	2.9	5.3	.6	*	.0	.0	388	.2	8.7
0	.0	.4	7.6	6.7	.3	.0	.0	.0	651	.4	14.5
-1	.0	.3	7.9	3.6	*	.0	.0	.0	522	.2	11.8
-2	*	1.0	8.7	3.2	*	*	*	.0	566	.5	12.5
-3	.0	1.0	6.0	1.1	.0	.0	.0	.0	354	.1	8.0
-4	.0	1.8	5.0	.6	.0	.0	.0	.0	321	.3	7.1
-5	.0	1.1	2.2	.3	*	.0	.0	.0	158	.1	3.5
-6	*	.7	1.1	.2	.0	.0	.0	.0	86	.1	1.9
-7/-8	.1	.5	.6	.3	.0	.0	.0	.0	62	.1	1.4
-9/-10	*	.2	.2	*	.0	.0	.0	.0	17	.0	.4
-11/-13	*	.0	.1	*	.0	.0	.0	.0	7	.0	.2
-14/-16	.0	.0	*	*	.0	.0	.0	.0	2	.0	*
-17/-19	.0	*	.0	.0	.0	.0	.0	.0	1	.0	*
TOTAL	8	323	2009	1535	364	95	21	5	4360	104	4256
PCT	.2	7.4	46.1	35.2	8.3	2.2	.5	.1	100.0	2.4	97.6

PERIOD: (OVER-ALL) 1963-1974

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.7	.0	.0	.0	.0	.7
1-2	.0	1.7	1.5	.0	.0	.0	3.2
3-4	.0	1.5	3.1	.2	.0	.0	4.8
5-6	.0	.5	2.1	.4	.0	.0	3.0
7	.0	.1	1.1	.3	.0	.0	1.6
8-9	.0	.0	.1	.1	.0	.0	.2
10-11	.0	.0	.1	.0	.0	.0	.1
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.1	.0	.0	.1
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.1	4.5	8.0	1.0	.0	.0	13.6

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	*	.0	.0	.0	.0	*
1-2	.0	.3	*	.0	.0	.0	.3
3-4	.0	.2	*	.0	.0	.0	.2
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	*	.0	.0	*
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.5	*	*	.0	.0	.6

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.1	.0	.0	.0	.0	.1
3-4	.0	.1	.0	.0	.0	.0	.1
5-6	.1	.0	.0	.0	.0	.0	.1
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.1	.0	.0	.1
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.1	.1	.0	.1	.0	.0	.3

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.1	.0	.0	.0	.0	.1
1-2	.0	.2	.0	.0	.0	.0	.2
3-4	.0	*	.2	.0	.0	.0	.2
5-6	*	.0	*	.0	.0	.0	*
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	*	.3	.2	.0	.0	.0	.5

PERIOD: (OVER-ALL) 1963-1974

APRIL

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TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

S

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.2	.0	.0	.0	.0	.3
1-2	.0	.1	.1	.0	.0	.0	.3
3-4	.0	.1	.3	.0	.0	.0	.4
5-6	.0	.2	.1	.0	.0	.0	.3
7	.0	.0	.0	.0	.1	.0	.1
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.1	.6	.5	.0	.1	.0	1.3

SW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	*	.7	.0	.0	.0	.0	.7
1-2	.0	.5	.1	.0	.0	.0	.6
3-4	.0	.5	.2	.0	.0	.0	.7
5-6	.0	.1	.1	.0	.0	.0	.2
7	.0	.1	.1	.0	*	.0	.2
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	*	1.9	.5	.0	*	.0	2.4

W

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	1.2	.0	.0	.0	.0	1.5
1-2	.4	2.4	.3	.0	.0	.0	3.2
3-4	.0	1.3	2.2	.1	.0	.0	3.6
5-6	.0	.3	1.5	.1	.0	.0	1.9
7	.0	.1	.3	.1	.0	.0	.5
8-9	.0	.1	.0	.1	.0	.0	.2
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.6	5.4	4.4	.4	.0	.0	10.8

NW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.1	1.7	.0	.0	.0	.0	1.8	
1-2	.2	9.1	6.2	.0	.0	.0	15.4	
3-4	.1	6.5	19.8	.7	.0	.0	27.1	
5-6	.0	1.3	11.3	2.2	.0	.0	14.8	
7	.0	.4	4.3	1.0	.1	.0	5.9	
8-9	.0	.1	1.8	.8	.0	.0	2.7	
10-11	.0	.0	.5	.4	.1	.0	1.1	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.2	.1	.0	.2	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.4	19.1	43.9	5.2	.3	.0	69.0	98.4

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	1.9	4.6	.0	.0	.0	.0	6.6	
1-2	.7	14.4	8.3	.0	.0	.0	23.5	
3-4	.3	10.1	25.7	.9	.0	.0	37.0	
5-6	.1	2.5	14.9	2.7	.0	.0	20.1	
7	.0	.7	5.8	1.4	.1	.0	8.1	
8-9	.0	.2	1.9	1.0	.0	.0	3.1	
10-11	.0	.0	.7	.5	.1	.0	1.3	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.2	.1	.0	.3	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	3.1	32.5	57.3	6.7	.4	.0	100.0	1343

PERIOD: (OVER-ALL) 1949-1974

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	2.2	10.8	16.4	9.8	3.2	1.2	.4	.1	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	1470	4
6-7	.2	1.8	7.4	10.0	4.9	2.0	.8	.2	.4	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	912	5
8-9	*	.5	2.6	3.4	2.9	1.7	.8	.5	.3	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	419	6
10-11	.0	.5	.9	1.2	1.4	1.1	1.0	.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	213	7
12-13	.0	.0	.7	.5	.5	.5	.2	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	82	6
>13	.0	.0	.0	.2	.4	.2	.1	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	35	8
INDET	1.8	.8	1.0	.8	.4	.4	.2	.1	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	178	3
TOTAL	138	477	958	858	447	231	111	45	39	5	0	0	0	0	0	0	0	0	0	3309	5
PCT	4.2	14.4	29.0	25.9	13.5	7.0	3.4	1.4	1.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

MAY

PERIOD: (PRIMARY) 1950-1974
(OVER-ALL) 1877-1974

AREA 0030 BAJA
29.4N 116.5W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA				
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG	DUST SNOW BLWG	NO SIG WEA
N	.0	.0	.1	.0	.0	.0	.0	.1	.5	.1	2.4	.0	3.4	.2		93.3
NE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6.1	.0	.0	.0		93.9
E	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.7	.0		94.3
SE	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.6	6.6	.0	.0	.0		91.8
S	.0	.0	.0	.0	.0	.0	.0	.0	3.2	1.4	.0	.0	.0	.0		95.4
SW	.0	.0	1.1	.0	.0	.0	.0	1.1	1.8	.0	1.5	.0	5.9	.0		89.7
W	.2	.2	.8	.0	.0	.0	.0	1.2	.8	.2	2.7	.2	2.5	.0		92.7
NW	.2	.1	.3	.0	.0	.0	.0	.5	.3	*	1.4	.1	3.2	.1		94.3
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.3	.0	6.4	.0		88.3
TOT PCT	.1	.1	.3	.0	.0	.0	.0	.5	.5	.1	1.8	.1	3.2	.1		93.8
TOT OBS:	4649															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA				
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG	DUST SNOW BLWG	NO SIG WEA
00&03	.0	.1	.2	.0	.0	.0	.0	.3	.3	.0	1.5	.0	4.2	.0		93.8
06&09	.1	.1	.3	.0	.0	.0	.0	.5	.4	.2	1.6	.2	2.8	.2		94.2
12&15	.4	.0	.5	.0	.0	.0	.0	.8	.7	.1	2.1	.0	2.9	.0		93.4
18&21	.1	.1	.4	.0	.0	.0	.0	.6	.4	.1	2.0	.1	2.8	.1		94.1
TOT PCT	.1	.1	.3	.0	.0	.0	.0	.5	.4	.1	1.8	.1	3.2	.1		93.9
TOT OBS:	4677															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	.4	4.1	7.0	1.0	*	.0		12.5	13.3	9.8	11.0	12.1	9.3	15.0	11.3	14.0	11.8
NE	*	.2	.1	.0	.0	.0		.3	8.7	.5	.0	.2	.0	.5	.0	.4	.0
E	.1	.2	.1	.0	.0	.0		.3	6.9	.2	.0	.0	.3	.6	.0	.5	.5
SE	.1	.2	.1	.0	.0	.0		.3	6.1	.2	.0	.3	.6	.4	.0	.5	.5
S	.3	.7	.1	.0	.0	.0		1.1	5.9	1.1	.0	1.7	.9	1.2	.3	.9	.5
SW	.3	1.0	.1	*	.0	.0		1.5	6.6	1.7	1.3	1.2	3.8	1.2	2.4	1.2	2.0
W	.9	6.7	2.9	.1	.0	.0		10.6	9.0	11.5	10.6	10.0	12.6	9.3	14.4	10.4	11.8
NW	1.8	23.0	41.3	5.0	.1	.0		71.2	13.5	73.8	75.4	72.3	70.8	68.9	71.2	69.6	71.5
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	2.0							2.0	.0	1.2	1.7	2.1	1.7	2.9	.5	2.4	1.5
TOT OBS	304	1836	2622	311	9	0	5082		12.5	1148	116	917	172	1027	191	1311	200
TOT PCT	6.0	36.1	51.6	6.1	.2	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	1.7	7.3	3.3	.1	*		12.5	13.3	9.9	11.6	14.4	13.7
NE	.2	.1	*	.0	.0		.3	8.7	.4	.2	.4	.3
E	.2	.2	.0	.0	.0		.3	6.9	.2	*	.5	.5
SE	.2	.1	.0	.0	.0		.3	6.1	.1	.4	.3	.5
S	.8	.3	*	.0	.0		1.1	5.9	1.0	1.6	1.0	.9
SW	1.0	.4	.1	.0	.0		1.5	6.6	1.7	1.6	1.4	1.3
W	3.7	6.3	.6	*	.0		10.6	9.0	11.4	10.4	10.1	10.6
NW	6.2	42.2	20.0	.8	*		71.2	13.5	74.0	72.0	69.3	69.8
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	2.0						2.0	.0	1.3	2.0	2.5	2.3
TOT OBS	915	2895	1221	50	1	5082		12.5	1264	1089	1218	1511
TOT PCT	18.0	57.0	24.0	1.0	*		100.0		100.0	100.0	100.0	100.0

MAY

PERIOD: (PRIMARY) 1950-1974
(OVER-ALL) 1877-1974

AREA 0030 BAJA
29.4N 116.5W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	1.3	3.0	33.3	54.4	7.8	.2	.0	13.2	100.0	1264
06&09	2.0	3.8	34.3	53.1	6.7	.2	.0	12.8	100.0	1089
12&15	2.5	4.3	36.8	50.8	5.4	.2	.0	12.2	100.0	1218
18&21	2.3	4.6	39.3	48.8	4.8	.2	.0	11.9	100.0	1511
TOT	104	200	1836	2622	311	9	0	12.5		5082
PCT	2.0	3.9	36.1	51.6	6.1	.2	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	3.4	1.4	3.8	4.6		5.1
NE	.1	*	.1	.1		4.7
E	.1	*	.2	.1		5.7
SE	*	.0	.1	.2		7.2
S	.2	.1	.4	.3		5.7
SW	.2	.1	.4	.8		6.3
W	1.6	.6	2.6	5.7		6.2
NW	15.0	6.9	18.9	29.8		5.5
VAR	.0	.0	.0	.0		.0
CALM	.6	.1	.5	1.1		5.4
TOT OBS	741	324	942	1497	3504	5.6
TOT PCT	21.1	9.2	26.9	42.7	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.1	.1	.3	1.2	3.1	1.6	.5	.4	.1	.1	5.7	
NE	.0	.0	.0	*	.1	*	*	.0	*	.0	.2	
E	.0	.0	*	.0	.1	.1	*	.0	*	.0	.2	
SE	.1	.0	.0	.1	.1	.1	.0	.0	.0	.0	*	
S	.0	*	.0	.1	.4	.1	*	*	.0	.0	.4	
SW	.0	.0	*	.3	.5	.2	.1	*	.0	.0	.4	
W	.1	.1	.3	1.4	3.0	1.5	.4	.3	.1	*	3.2	
NW	.5	.2	1.7	8.9	17.5	9.4	3.0	.7	.5	.5	27.5	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.1	.3	.7	.1	.1	.0	.1	.0	.9	
TOT OBS	28	18	89	431	892	460	141	49	26	21	1349	3504
TOT PCT	.8	.5	2.5	12.3	25.5	13.1	4.0	1.4	.7	.6	38.5	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM) * OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >50YD	* OR >0
* OR >6500	1.3	1.4	1.4	1.4	1.4	1.4	1.4	1.4
* OR >5000	2.4	2.7	2.7	2.7	2.7	2.7	2.7	2.7
* OR >3500	5.8	6.7	6.7	6.7	6.7	6.7	6.7	6.7
* OR >2000	16.5	19.6	19.8	19.8	19.8	19.8	19.8	19.8
* OR >1000	38.0	44.8	45.3	45.3	45.3	45.3	45.3	45.3
* OR >600	47.3	57.0	57.6	57.6	57.7	57.7	57.7	57.7
* OR >300	48.9	59.5	60.2	60.2	60.3	60.3	60.3	60.3
* OR >150	49.3	60.0	60.7	60.7	60.8	60.8	60.8	60.8
* OR > 0	49.6	60.5	61.3	61.3	61.4	61.5	61.5	61.5
TOTAL	1746	2128	2157	2158	2159	2162	2164	2164

TOTAL NUMBER OF OBS: 3518

PCT FREQ NH <5/8: 38.5

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
12.9	6.7	6.6	5.8	5.5	5.7	8.3	11.8	36.3 .5	3793

PERIOD: (PRIMARY) 1950-1974
(OVER-ALL) 1877-1974

AREA 0030 BAJA
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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	*	*	.0	.0	*	
	NO PCP	.0	.0	.0	*	.0	.0	*	.1	.0	.0	.1	
	TOT %	.0	.0	.0	*	.0	.0	.1	.1	.0	.0	.2	
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	*	*	.0	*	.1	
	TOT %	.0	.0	.0	.0	.0	.0	*	*	.0	*	.1	
1<2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	*	.0	.0	.0	.0	.0	.1	.1	.0	.0	.2	
	TOT %	*	.0	.0	.0	.0	.0	.1	.1	.0	.0	.2	
2<5	PCP	.0	.0	.0	.0	.0	.0	*	*	.0	.0	*	
	NO PCP	.2	*	.0	.0	.0	.1	.2	1.1	.0	*	1.6	
	TOT %	.2	*	.0	.0	.0	.1	.2	1.1	.0	*	1.6	
5<10	PCP	*	.0	.0	.0	.0	*	.1	.2	.0	.0	.3	
	NO PCP	2.1	*	.1	.1	.3	.2	1.6	10.3	.0	.7	15.4	
	TOT %	2.1	*	.1	.1	.3	.3	1.7	10.5	.0	.7	15.7	
10+	PCP	.0	.0	.0	.0	.0	.0	*	.2	.0	.0	.2	
	NO PCP	10.2	.3	.3	.2	.9	1.1	8.5	59.2	.0	1.2	82.1	
	TOT %	10.2	.3	.3	.2	.9	1.1	8.6	59.4	.0	1.2	82.3	
	TOT OBS												4638
	TOT PCT	12.5	.4	.4	.3	1.2	1.5	10.6	71.2	.0	2.0	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	*	*	*	.0	.0	*	
	4-10	.0	.0	.0	*	.0	.0	*	.1	.0		.2	
	11-21	.0	.0	.0	.0	.0	.0	*	*	.0		*	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	*	.0	*	.1	.1	.0	.0	.2	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	*	
	4-10	.0	.0	.0	.0	.0	.0	*	*	.0		*	
	11-21	*	.0	.0	.0	.0	.0	.0	*	.0		*	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	*	.0	.0	.0	.0	.0	*	*	.0	*	.1	
1<2	0-3	.0	.0	.0	.0	.0	.0	*	.0	.0	.0	*	
	4-10	.0	.0	.0	.0	.0	.0	*	.1	.0		.1	
	11-21	*	.0	.0	.0	.0	.0	*	.1	.0		.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	*	.0	.0	.0	.0	.0	.1	.1	.0	.0	.2	
2<5	0-3	*	.0	.0	.0	.0	.0	*	.1	.0	.1	.2	
	4-10	.1	.0	.0	.0	.0	.1	.3	.5	.0		1.0	
	11-21	.1	*	.0	.0	.0	.0	*	.6	.0		.8	
	22+	.0	.0	.0	.0	.0	.0	.0	.1	.0		.1	
	TOT %	.2	*	.0	.0	.0	.1	.3	1.4	.0	.1	2.1	
5<10	0-3	.2	.0	*	*	.1	*	.2	.3	.0	.7	1.4	
	4-10	.6	*	.1	*	.1	.2	1.1	3.9	.0		6.0	
	11-21	1.2	.0	.0	*	.1	*	.4	5.7	.0		7.5	
	22+	.1	.0	.0	.0	.0	*	*	.5	.0		.6	
	TOT %	2.1	*	.1	.1	.3	.2	1.6	10.4	.0	.7	15.5	
10+	0-3	.3	*	.1	.1	.2	.3	.7	1.3	.0	1.2	4.1	
	4-10	3.4	.2	.1	.1	.6	.7	5.3	18.3	.0		28.7	
	11-21	5.7	.1	.1	*	*	.1	2.4	34.9	.0		43.4	
	22+	.9	.0	.0	.0	.0	.0	.1	4.7	.0		5.7	
	TOT %	10.2	.3	.3	.2	.9	1.1	8.5	59.1	.0	1.2	81.9	
	TOT OBS												4883
	TOT PCT	12.6	.3	.4	.3	1.1	1.4	10.6	71.3	.0	2.0	100.0	

MAY

PERIOD: (PRIMARY) 1950-1974
(OVER-ALL) 1877-1974

AREA 0030 BAJA
29.4N 116.5W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET,NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00&03	.4	.4	2.7	9.5	22.7	11.8	4.5	.7	.5	.3	53.5	46.5	970
06&09	.4	.5	2.2	9.5	24.5	11.0	2.6	1.2	.9	.9	53.7	46.3	739
12&15	1.5	.8	3.1	16.1	25.5	14.8	4.1	1.6	.1	.6	68.3	31.7	797
18&21	.8	.4	2.2	13.3	27.1	13.7	4.2	1.8	1.3	.5	65.4	34.6	1091
TOT	28	18	91	435	900	463	142	49	27	21	2174	1423	3597
PCT	.8	.5	2.5	12.1	25.0	12.9	3.9	1.4	.8	.6	60.4	39.6	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00&03	.1	.2	.2	2.1	13.9	83.5	1210
06&09	.1	.0	.6	1.9	17.0	80.5	1070
12&15	.3	.1	.3	2.4	17.3	79.7	1161
18&21	.5	.0	.1	1.9	14.3	83.3	1470
TOT	12	4	12	102	761	4020	4911
PCT	.2	.1	.2	2.1	15.5	81.9	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET,NH >4/8), BY HOUR

HOUR (GMT)	<150 <500YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	.4	3.7	14.3	40.3	45.4	952
06&09	.4	3.2	14.0	41.9	44.1	714
12&15	1.4	5.4	22.6	46.7	30.7	782
18&21	.7	3.4	17.3	49.3	33.4	1070
TOT	25	136	598	1576	1344	3518
PCT	.7	3.9	17.0	44.8	38.2	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
80/84	.0	.0	.0	.0	.0	*	.0	.0	1	*
75/79	.0	.0	*	.1	.1	.1	.0	.0	10	.3
70/74	.0	.0	.1	.3	.7	.7	.3	*	76	2.1
65/69	.0	.0	.1	.5	2.5	5.1	3.4	.8	453	12.3
60/64	.0	.0	.1	.5	8.9	21.0	21.0	5.3	2084	56.8
55/59	.0	.0	.0	.2	1.2	7.7	13.9	5.4	1036	28.2
50/54	.0	.0	.0	.0	.1	.0	.2	.1	12	.3
TOTAL	0	0	8	62	489	1268	1423	422	3672	100.0
PCT	.0	.0	.2	1.7	13.3	34.5	38.8	11.5		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.0	.0	.0	.0	.0	*	.0	.0
*	.0	*	.0	.0	.0	.1	.1	.0	.0
.4	.0	*	.0	*	.0	.2	1.3	.0	.1
1.6	.1	*	.1	.3	.3	1.5	8.1	.0	.3
7.2	.2	.2	.2	.6	.6	6.5	39.6	.0	1.5
3.7	*	*	*	.2	.2	2.1	21.5	.0	.4
*	.0	.0	.0	*	*	*	.2	.0	*
12.9	.3	.3	.4	1.2	1.4	10.4	70.9	.0	2.3

TABLE 15

MEANS,EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00&03	79	73	69	62	58	57	54	62.9	1261
06&09	73	67	64	60	56	54	50	60.1	1091
12&15	74	66	64	59	56	54	50	59.6	1220
18&21	80	74	69	62	58	55	50	62.8	1496
TOT	80	72	68	61	57	55	50	61.5	5068

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00&03	.0	2.1	14.6	39.4	35.5	8.4	78	957
06&09	.0	.3	9.5	30.2	44.0	16.1	82	791
12&15	.0	1.5	7.6	31.1	44.8	14.9	82	863
18&21	.0	3.2	19.3	36.2	33.2	8.1	77	1085
TOT	0	70	490	1277	1435	424	79	3696

PERIOD: (PRIMARY) 1950-1974
(OVER-ALL) 1877-1974

TABLE 17

AREA 0030 BAJA
29.4N 116.5W

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	49 52	53 56	57 60	61 64	65 68	69 72	73 76	77 80	TOT	W FOG	WO FOG
17/19	.0	.0	.0	.0	.0	*	*	*	4	.0	.1
14/16	.0	.0	.0	.0	.0	.1	.1	.1	14	*	.3
11/13	.0	.0	*	*	.2	.2	.1	*	24	*	.5
9/10	.0	.0	*	.2	.4	.7	.2	.0	63	.0	1.4
7/8	.0	.0	.1	.7	1.0	.5	.1	*	101	.1	2.2
6	.0	.0	.2	.6	1.0	.3	*	.0	94	*	2.1
5	.0	.0	.2	1.1	1.5	.3	*	.0	136	*	3.1
4	.0	.0	.4	2.1	2.0	.3	.0	.0	210	.1	4.8
3	.0	*	.5	2.5	1.7	.0	.0	.0	207	*	4.7
2	.0	*	1.2	5.4	1.6	.1	*	.0	362	.3	8.0
1	.0	*	2.2	6.2	.9	*	.0	.0	407	.1	9.2
0	*	.4	6.0	9.0	.7	*	.0	.0	701	.3	15.9
-1	.0	.2	5.6	5.1	.3	*	.0	.0	487	.1	11.1
-2	*	.5	7.9	5.3	.2	.0	.0	.0	605	.3	13.6
-3	.0	.5	6.2	1.9	.1	.0	.0	.0	377	*	8.6
-4	.0	.7	4.4	1.1	.1	.0	.0	.0	276	*	6.3
-5	*	.4	2.3	.6	.0	.0	.0	.0	141	.1	3.2
-6	.1	.2	1.1	.3	.0	.0	.0	.0	75	*	1.7
-7/-8	*	.3	.7	.2	.0	.0	.0	.0	52	.0	1.2
-9/-10	*	.0	.1	*	.0	.0	.0	.0	8	.0	.2
-11/-13	.0	*	*	.0	.0	.0	.0	.0	2	.0	*
-14/-16	.0	.0	.0	*	.0	.0	.0	.0	2	.0	*
TOTAL	11		1701		508		27			72	4276
PCT	.3	141 3.2	39.1	1842 42.4	11.7	110 2.5	.6	8 .2	4348 100.0	1.7	98.3

PERIOD: (OVER-ALL) 1963-1974

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	.5	.0	.0	.0	.0	.7
1-2	.1	2.4	1.7	.0	.0	.0	4.2
3-4	.0	1.1	2.7	.2	.0	.0	3.9
5-6	.0	.5	2.3	.3	.0	.0	3.1
7	.0	.1	1.1	.3	.0	.0	1.5
8-9	.0	.1	.3	.2	.0	.0	.5
10-11	.0	.0	.1	.0	.0	.0	.1
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.1	.0	.0	.0	.1
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	4.5	8.3	1.0	.0	.0	14.2

NE

1-3	4-10	11-21	22-33	34-47	48+	PCT
.0	.0	.0	.0	.0	.0	.0
.0	.1	.0	.0	.0	.0	.1
.0	.0	.1	.0	.0	.0	.1
.0	.0	.0	.0	.0	.0	.0
.0	.0	.0	.0	.0	.0	.0
.0	.0	.0	.0	.0	.0	.0
.0	.0	.0	.0	.0	.0	.0
.0	.0	.1	.0	.0	.0	.1
.0	.0	.0	.0	.0	.0	.0
.0	.0	.0	.0	.0	.0	.0
.0	.0	.0	.0	.0	.0	.0
.0	.0	.0	.0	.0	.0	.0
.0	.0	.0	.0	.0	.0	.0
.0	.0	.0	.0	.0	.0	.0
.0	.0	.0	.0	.0	.0	.0
.0	.0	.0	.0	.0	.0	.0
.0	.0	.0	.0	.0	.0	.0
.0	.0	.0	.0	.0	.0	.0
.0	.0	.0	.0	.0	.0	.0
.0	.1	.2	.0	.0	.0	.3

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.1	.0	.0	.0	.0	.2
1-2	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.1	.0	.0	.0	.1
5-6	.0	.0	.1	.0	.0	.0	.1
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.1	.1	.1	.0	.0	.0	.4

SE

1-3	4-10	11-21	22-33	34-47	48+	PCT
*	.1	.0	.0	.0	.0	.1
.0	.1	.0	.0	.0	.0	.1
.0	*	.1	.0	.0	.0	.2
.0	.0	*	.0	.0	.0	*
.0	.0	.0	.0	.0	.0	.0
.0	.0	.0	.0	.0	.0	.0
.0	.0	.0	.0	.0	.0	.0
.0	.0	.0	.0	.0	.0	.0
.0	.0	.0	.0	.0	.0	.0
.0	.0	.0	.0	.0	.0	.0
.0	.0	.0	.0	.0	.0	.0
.0	.0	.0	.0	.0	.0	.0
.0	.0	.0	.0	.0	.0	.0
.0	.0	.0	.0	.0	.0	.0
.0	.0	.0	.0	.0	.0	.0
.0	.0	.0	.0	.0	.0	.0
.0	.0	.0	.0	.0	.0	.0
.0	.0	.0	.0	.0	.0	.0
.0	.0	.0	.0	.0	.0	.0
*	.2	.2	.0	.0	.0	.4

PERIOD: (OVER-ALL) 1963-1974

MAY

TABLE 18 (CONT)

AREA 0030 BAJA 29.4N 116.5W

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

	S							SW						
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.1	.0	.0	.0	.0	.1	.0	.2	.0	.0	.0	.0	.2
1-2	.0	.3	.0	.0	.0	.0	.3	.1	.2	*	.0	.0	.0	.3
3-4	.0	.1	.0	.0	.0	.0	.1	.0	.1	.0	.0	.0	.0	.1
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.1	.4	.0	.0	.0	.0	.5	.1	.4	*	.0	.0	.0	.5

	W							NW							TOTAL
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	PCT
<1	.3	1.0	.0	.0	.0	.0	1.3	.6	2.6	.1	.0	.0	.0	3.3	
1-2	.3	2.8	.8	.0	.0	.0	3.9	.4	9.3	5.5	.0	.0	.0	15.1	
3-4	.1	1.0	.8	.0	.0	.0	1.9	.1	7.0	17.2	.6	.0	.0	24.8	
5-6	.0	.1	.7	.1	.0	.0	.9	.1	2.4	16.7	1.6	.0	.0	20.8	
7	.0	.1	.3	.0	.0	.0	.4	.0	.2	4.2	1.1	.1	.0	5.5	
8-9	.0	.0	.1	.0	.0	.0	.1	.0	.1	1.4	1.4	.0	.0	2.9	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.2	.1	.0	.6	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.1	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.2	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.7	5.1	2.6	.1	.0	.0	8.5	1.2	21.4	45.5	5.0	.1	.0	73.3	98.0

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	3.7	4.5	.1	.0	.0	.0	8.3	
1-2	1.0	15.0	7.9	.0	.0	.0	23.8	
3-4	.2	9.1	20.9	.7	.0	.0	31.0	
5-6	.1	2.9	19.6	2.0	.0	.0	24.7	
7	.0	.4	5.6	1.4	.1	.0	7.4	
8-9	.0	.1	1.8	1.5	.0	.0	3.4	
10-11	.0	.0	.5	.2	.1	.0	.8	
12	.0	.0	.1	.0	.0	.0	.1	
13-16	.0	.0	.1	.2	.0	.0	.3	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
								1367
TOT PCT	5.0	32.0	56.6	6.1	.1	.0	100.0	

PERIOD: (OVER-ALL) 1949-1974

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	2.6	11.0	17.9	10.3	2.5	1.2	.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1521	3
6-7	*	1.7	7.3	11.1	5.3	2.5	1.0	.2	.2	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	965	5
8-9	.0	.5	1.5	3.4	2.9	2.0	.7	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	377	6
10-11	.0	.5	.7	1.1	.8	1.1	.4	.1	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	156	6
12-13	.0	.0	.5	.4	.2	.3	.2	*	.1	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	55	6
>13	.0	.0	.0	.1	.1	*	.1	.1	.0	.1	*	.0	.0	.0	.0	.0	.0	.0	.0	17	10
INDET	2.1	1.0	1.3	1.1	.6	.2	.2	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	218	3
TOTAL	157	483	964	911	409	243	95	23	19	3	2	0	0	0	0	0	0	0	0	3309	4
PCT	4.7	14.6	29.1	27.5	12.4	7.3	2.9	.7	.6	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

JUNE

PERIOD: (PRIMARY) 1950-1973
(OVER-ALL) 1890-1973

AREA 0030 BAJA
29.3N 116.6W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA				
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG	DUST SNOW BLWG	NO SIG WEA
N	.0	.1	.3	.0	.0	.0	.2	.6	.9	.0	3.9	.0	4.0	.2		90.4
NE	.0	1.9	.0	.0	.0	.0	.0	1.9	.0	.0	1.9	.0	22.6	.0		73.6
E	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	9.8	.0		90.2
SE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	8.5	.0		91.5
S	.0	.0	.0	.0	.0	.0	.0	.0	3.3	.0	6.6	.0	5.2	.0		84.8
SW	.4	.0	.0	.0	.0	.0	.0	.4	.4	.0	4.5	.4	4.5	.0		89.8
W	.6	.0	1.2	.0	.0	.0	.0	1.5	.6	.2	3.5	.4	5.8	.0		87.9
NW	*	.1	.6	.0	.0	.0	.0	.7	.6	*	2.9	*	4.7	.0		91.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0
CALM	.0	.0	.9	.0	.0	.0	.0	.9	.9	.0	9.3	.0	8.3	.0		80.6
TOT PCT	.1	.1	.6	.0	.0	.0	*	.8	.7	*	3.3	.1	4.9	*		90.2
TOT OBS:	4482															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA				
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG	DUST SNOW BLWG	NO SIG WEA
00&03	.1	.1	.0	.0	.0	.0	.1	.3	.2	.1	1.3	.0	4.9	.0		93.2
06&09	.0	.1	.6	.0	.0	.0	.0	.7	.6	.1	3.0	.3	3.7	.0		91.5
12&15	.1	.2	1.0	.0	.0	.0	.0	1.3	1.0	.0	4.5	.0	5.3	.1		87.8
18&21	.1	.1	.9	.0	.0	.0	.0	.9	.9	.0	4.2	.0	5.1	.0		88.8
TOT PCT	.1	.1	.6	.0	.0	.0	*	.8	.7	*	3.3	.1	4.8	*		90.3
TOT OBS:	4523															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	.5	4.7	7.1	.7	.0	.0		12.9	12.7	10.6	18.3	12.2	11.8	13.2	15.7	14.0	16.3
NE	*	.2	.1	.0	.0	.0		.3	7.8	.1	.0	.2	.0	.2	.6	.6	.3
E	.1	.1	*	.0	.0	.0		.2	5.4	.2	.0	.3	.0	.3	.6	.1	.0
SE	.1	.1	*	.0	.0	.0		.3	5.0	.4	.7	.3	.0	.1	.3	.2	.0
S	.4	.8	.1	.0	.0	.0		1.3	5.1	.5	1.1	1.3	2.3	.9	2.5	1.7	2.2
SW	.3	1.1	.1	*	.0	.0		1.6	6.8	1.2	1.8	1.4	1.2	1.5	2.8	1.7	2.7
W	1.0	6.7	2.4	.1	.0	.0		10.3	8.5	10.6	10.8	8.3	10.1	10.7	7.6	10.7	14.2
NW	2.3	27.2	37.8	3.4	.0	.0		70.6	12.6	75.1	65.1	74.6	73.4	68.1	65.7	68.1	61.2
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	2.6							2.6	.0	1.2	2.2	1.4	1.2	4.9	4.1	2.9	3.2
TOT OBS	358	1997	2928	207	0	0	4890		11.6	1127	139	871	171	921	170	1305	186
TOT PCT	7.3	40.8	47.6	4.2	.0	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	1.9	7.9	3.1	.1	.0		12.9	12.7	11.5	12.1	13.6	14.3
NE	.2	.1	*	.0	.0		.3	7.8	.1	.2	.3	.5
E	.1	.1	.0	.0	.0		.2	5.4	.2	.3	.4	.1
SE	.2	.1	.0	.0	.0		.3	5.0	.5	.2	.2	.2
S	1.0	.3	*	.0	.0		1.3	5.1	.6	1.4	1.2	1.8
SW	.9	.6	.1	.0	.0		1.6	6.8	1.3	1.4	1.7	1.8
W	4.2	5.6	.5	.0	.0		10.3	8.5	10.6	8.6	10.2	11.2
NW	10.6	43.8	16.0	.2	.0		70.6	12.6	74.0	74.4	67.8	67.2
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	2.6						2.6	.0	1.3	1.3	4.8	3.0
TOT OBS	1058	2852	965	15	0	4890		11.6	1266	1042	1091	1491
TOT PCT	21.6	58.3	19.7	.3	.0		100.0		100.0	100.0	100.0	100.0

JUNE

PERIOD: (PRIMARY) 1950-1973
(OVER-ALL) 1890-1973

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	1.3	3.6	38.5	51.1	5.4	.0	.0	12.3	100.0	1266
06&09	1.3	3.7	35.7	53.5	5.8	.0	.0	12.6	100.0	1042
12&15	4.8	4.8	42.6	44.6	3.2	.0	.0	11.1	100.0	1091
18&21	3.0	6.3	45.1	42.7	3.0	.0	.0	10.7	100.0	1491
TOT	127	231	1997	2328	207	0	0	11.6		4890
PCT	2.6	4.7	40.8	47.6	4.2	.0	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	1.7	1.2	3.9	6.5		6.1
NE	.1	*	*	.2		5.8
E	.1	*	.0	.2		5.2
SE	.1	*	*	.1		5.0
S	*	.0	.2	.9		7.5
SW	.1	.1	.4	.8		6.9
W	1.0	.6	1.7	6.5		6.7
NW	10.2	4.8	15.3	41.5		6.3
VAR	.0	.0	.0	.0		.0
CALM	.1	.1	.3	1.6		7.1
TOT OBS	448	228	742	1967	3385	6.4
TOT PCT	13.2	6.7	21.9	58.1	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.3	.0	.6	2.9	3.2	2.0	.4	.2	*	.0	3.6	
NE	*	.0	.0	.1	.1	*	.0	.0	.0	.0	.1	
E	.0	.0	.0	.1	.1	.0	.0	.0	.0	.0	.1	
SE	.0	.0	.0	*	*	*	*	.0	.0	.0	.1	
S	*	.0	*	.2	.4	.2	.1	.0	*	.0	.1	
SW	.0	*	*	.4	.2	.2	*	*	*	.0	.2	
W	.1	.1	.5	1.9	3.0	1.2	.5	.2	.1	*	2.0	
NW	1.2	.5	3.1	13.3	20.8	9.1	3.3	.9	.3	.3	18.9	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.1	*	.2	.5	.7	.2	*	*	.0	*	.4	
TOT OBS	56	22	153	658	967	440	149	47	16	12	865	3385
TOT PCT	1.7	.6	4.5	19.4	28.6	13.0	4.4	1.4	.5	.4	25.6	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM) * OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >50YD	* OR >0
* OR >6500	.5	.8	.9	.9	.9	.9	.9	.9
* OR >5000	1.6	2.2	2.2	2.2	2.2	2.2	2.2	2.2
* OR >3500	5.2	6.6	6.7	6.7	6.7	6.7	6.7	6.7
* OR >2000	15.7	19.6	19.7	19.7	19.7	19.7	19.7	19.7
* OR >1000	38.7	47.9	48.3	48.3	48.3	48.3	48.3	48.3
* OR >600	51.9	66.9	67.7	67.7	67.7	67.7	67.7	67.7
* OR >300	54.4	71.1	72.2	72.2	72.2	72.3	72.3	72.3
* OR >150	54.8	71.7	72.9	72.9	72.9	72.9	72.9	72.9
* OR > C	55.2	72.5	73.9	74.1	74.2	74.4	74.4	74.5
TOTAL	1878	2466	2514	2518	2524	2530	2531	2532

TOTAL NUMBER OF OBS: 3400 PCT FREQ NH <5/8: 25.5

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
8.7	4.3	4.1	3.9	4.2	4.1	8.0	11.5	50.2	1.0	3681

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PERIOD: (PRIMARY) 1950-1973
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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	*	.0	.0	*	
	NO PCP	.1	.0	.0	.0	.0	.0	*	.1	.0	*	.2	
	TOT %	.1	.0	.0	.0	.0	.0	*	.1	.0	*	.2	
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.1	*	.0	.0	*	*	*	.2	.0	.0	.3	
	TOT %	.1	*	.0	.0	*	*	*	.2	.0	.0	.3	
1<2	PCP	.0	.0	.0	.0	.0	.0	*	*	.0	.0	*	
	NO PCP	*	.0	.0	.0	*	.0	*	.1	.0	.0	.2	
	TOT %	*	.0	.0	.0	*	.0	*	.2	.0	.0	.2	
2<5	PCP	*	.0	.0	.0	.0	.0	.0	*	.0	.0	.1	
	NO PCP	.4	.0	.0	.0	*	*	.2	1.3	.0	.2	2.1	
	TOT %	.5	.0	.0	.0	*	*	.2	1.3	.0	.2	2.2	
5<10	PCP	*	*	.0	.0	.0	*	*	.2	.0	*	.3	
	NO PCP	3.0	.1	.1	.1	.4	.6	2.4	15.3	.0	.9	22.9	
	TOT %	3.0	.1	.1	.1	.4	.6	2.4	15.5	.0	.9	23.2	
10+	PCP	.0	.0	.0	.0	.0	.0	.1	.2	.0	.0	.3	
	NO PCP	9.3	.2	.1	.1	.7	.8	7.3	53.6	.0	1.3	73.5	
	TOT %	9.3	.2	.1	.1	.7	.8	7.4	53.8	.0	1.3	73.8	
	TOT OBS												4472
	TOT PCT	12.9	.3	.2	.3	1.2	1.5	10.1	71.1	.0	2.4	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	*	.0	.0	*	.1	
	4-10	*	.0	.0	.0	.0	.0	.1	.1	.0		.2	
	11-21	*	.0	.0	.0	.0	.0	.0	.1	.0		.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.1	.0	.0	.0	.0	.0	.1	.2	.0	*	.4	
1/2<1	0-3	*	.0	.0	.0	.0	.0	.0	*	.0	.0	*	
	4-10	*	.0	.0	.0	*	*	*	.2	.0		.3	
	11-21	*	*	.0	.0	.0	.0	.0	.0	.0		*	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	*	*	.0	.0	*	*	*	.2	.0	.0	.3	
1<2	0-3	.0	.0	.0	*	*	.0	.0	.1	.0	.0	.1	
	4-10	*	.0	.0	.0	.0	*	*	.1	.0		.3	
	11-21	.0	.0	.0	.0	*	.0	*	.1	.0		.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	*	.0	.0	*	*	*	.1	.3	.0	.0	.5	
2<5	0-3	.1	.0	.0	.0	*	*	.1	.1	.0	.2	.5	
	4-10	.2	.0	.0	.0	.0	*	.3	1.0	.0		1.5	
	11-21	.2	.0	.0	.0	.0	.0	.1	.9	.0		1.1	
	22+	*	.0	.0	.0	.0	.0	.0	*	.0		*	
	TOT %	.5	.0	.0	.0	*	*	.4	2.0	.0	.2	3.2	
5<10	0-3	.1	*	.0	*	.1	.1	.3	.7	.0	.9	2.4	
	4-10	1.2	.1	.1	.1	.2	.4	1.4	6.3	.0		9.7	
	11-21	1.5	*	*	.0	*	.1	.6	7.6	.0		9.9	
	22+	.1	.0	.0	.0	.0	.0	*	.7	.0		.8	
	TOT %	3.0	.1	.1	.1	.4	.6	2.3	15.3	.0	.9	22.8	
10+	0-3	.3	*	.1	.1	.3	.1	.6	1.9	.0	1.2	4.0	
	4-10	3.1	.1	*	*	.4	.6	4.9	19.1	.0		28.4	
	11-21	5.3	*	.0	*	*	.1	1.7	29.7	.0		36.9	
	22+	.6	.0	.0	.0	.0	*	.1	2.8	.0		3.8	
	TOT %	9.4	.2	.1	.1	.7	.8	7.3	52.9	.0	1.2	72.8	
	TOT OBS												4715
	TOT PCT	12.9	.3	.2	.3	1.2	1.6	10.3	70.9	.0	2.4	100.0	

PERIOD: (PRIMARY) 1950-1973
(OVER-ALL) 1890-1973

AREA 0030 BAJA
29.3N 116.6W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00E03	1.0	.2	4.1	16.3	27.0	11.6	4.9	1.3	.2	.1	66.7	33.3	933
06E09	1.3	.8	4.3	19.4	25.9	10.1	4.1	1.0	.8	.7	68.4	31.6	719
12E15	2.3	1.1	5.3	22.3	29.5	14.3	3.3	1.2	.1	.4	80.3	19.7	743
18E21	1.9	.6	4.1	19.0	29.6	14.6	4.6	1.8	.6	.4	77.1	22.9	1089
TOT	56	22	155	663	977	444	151	47	16	13	2544	930	3474
PCT	1.6	.6	4.5	19.1	28.1	12.8	4.3	1.4	.5	.4	73.2	26.8	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00E03	.2	.2	.4	2.1	19.1	78.1	1213
06E09	.4	.3	.2	3.6	22.4	73.0	1016
12E15	.7	.8	.8	3.5	25.1	69.2	1082
18E21	.3	.2	.3	3.4	24.6	71.0	1467
TOT	17	16	23	149	1088	3465	4738
PCT	.4	.3	.5	3.1	22.9	72.8	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET, NH >4/8), BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <3	1000+ AND3+	NH <5/8 AND 3+	TOTAL OBS
00E03	.9	5.3	22.5	46.1	31.4	905
06E09	1.2	6.5	27.1	42.6	30.3	693
12E15	2.3	8.9	32.0	48.9	19.1	738
18E21	1.9	6.7	26.3	52.3	21.3	1064
TOT	53	230	908	1630	862	3400
PCT	1.6	6.8	26.7	47.9	25.4	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
80/84	.0	.0	.0	.0	*	.0	.0	*	2	.1
75/79	.0	.0	*	.1	.1	*	.0	.1	11	.3
70/74	.0	.0	*	.2	1.0	1.0	.7	.2	110	3.0
65/69	.0	.1	*	.2	2.6	6.6	7.2	2.3	689	18.9
60/64	.0	.0	*	.1	3.2	16.0	32.9	11.9	2339	64.2
55/59	.0	.0	.0	.0	.2	1.9	7.0	4.3	489	13.4
50/54	.0	.0	.0	.0	.0	*	.0	.1	3	.1
TOTAL	0	2	4	20	262	930	1739	686	3643	100.0
PCT	.0	.1	.1	.5	7.2	25.5	47.7	18.8		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
*	.0	.0	.0	.0	.0	.0	*	.0	.0
*	.0	.0	.0	.0	.0	*	.2	.0	.0
.4	.0	*	*	.0	.1	.4	2.1	.0	.1
2.7	.1	*	.1	.2	.3	2.1	13.0	.0	.5
8.3	.2	.2	.2	.9	.9	5.9	46.1	.0	1.6
1.5	*	.1	.0	.1	.2	1.3	10.0	.0	.2
.0	.0	.0	.0	.0	.0	.0	.1	.0	.0
13.0	.3	.3	.3	1.2	1.4	9.7	71.5	.0	2.4

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00E03	82	75	70	64	60	58	51	64.2	1259
06E09	72	69	66	61	58	57	52	61.6	1050
12E15	72	68	65	61	57	55	50	60.9	1100
18E21	78	72	70	63	59	57	51	63.7	1489
TOT	82	72	69	62	58	57	50	62.8	4898

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00E03	.0	1.5	10.1	28.6	45.6	14.2	80	948
06E09	.0	.4	3.3	21.2	51.2	24.0	85	799
12E15	.0	.2	4.2	18.8	51.6	25.2	85	830
18E21	.0	.6	9.8	31.2	44.2	14.1	81	1101
TOT	0	26	265	940	1756	491	83	3678

PERIOD: (PRIMARY) 1950-1973
(OVER-ALL) 1890-1973

TABLE 17

AREA 0030 BAJA
29.3N 116.6W

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	49 52	53 56	57 60	61 64	65 68	69 72	73 76	77 80	81 84	TOT	W FOG	WO FOG
17/19	.0	.0	.0	.0	.0	*	.0	.0	.0	2	.0	*
14/16	.0	.0	.0	*	.0	.1	*	.1	*	10	.0	.2
11/13	.0	.0	.0	.1	*	.2	.1	.1	.0	23	*	.5
9/10	.0	.0	.0	.1	.2	.3	.2	*	.0	35	*	.8
7/8	.0	.0	.1	.2	.8	1.3	.2	.0	.0	107	*	2.5
6	.0	.0	*	.3	.7	.6	*	.0	.0	68	.0	1.6
5	.0	.0	.1	.7	1.7	.6	.0	.0	.0	130	.1	3.0
4	.0	.0	.1	1.4	2.9	.4	.0	.0	.0	196	.1	4.6
3	.0	*	.4	2.1	2.8	.4	.0	.0	.0	240	.1	5.7
2	.0	*	.6	5.3	3.3	.1	.0	.0	.0	392	.3	9.2
1	.0	.0	1.0	6.9	1.8	*	.0	.0	.0	404	.2	9.5
0	.0	.0	2.2	11.6	1.4	.1	.0	.0	.0	635	.6	14.7
-1	.0	.0	3.6	8.2	1.1	*	.0	.0	.0	540	.5	12.5
-2	*	.1	4.8	7.8	.5	.0	.0	.0	.0	548	.5	12.7
-3	.0	*	4.2	3.8	.2	.0	.0	.0	.0	344	.3	7.9
-4	.0	.2	3.4	2.3	.1	.0	.0	.0	.0	252	.4	5.7
-5	.0	.1	1.8	1.2	.1	.0	.0	.0	.0	129	.2	2.9
-6	*	.1	.8	.3	*	.0	.0	.0	.0	53	*	1.2
-7/-8	.0	*	.5	.4	*	.0	.0	.0	.0	37	*	.8
-9/-10	.0	.0	.1	*	.0	*	.0	.0	.0	6	.0	.1
-11/-13	.0	*	.0	*	.0	.0	.0	.0	.0	3	.0	.1
-14/-16	*	.0	.0	.1	.0	.0	.0	.0	.0	5	.0	.1
TOTAL	3	26	981	2203	742	170	26	7	1	4159	141	4018
PCT	.1	.6	23.6	53.0	17.8	4.1	.6	.2	*	100.0	3.4	96.6

PERIOD: (OVER-ALL) 1963-1973

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.5	.2	.0	.0	.0	.8
1-2	.1	2.0	1.0	.0	.0	.0	3.1
3-4	.0	1.3	2.5	.0	.0	.0	3.8
5-6	.1	.5	2.6	.1	.0	.0	3.2
7	.0	.0	.5	.1	.0	.0	.6
8-9	.0	.0	.1	.1	.0	.0	.2
10-11	.0	.0	.1	.0	.0	.0	.1
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	4.4	6.9	.3	.0	.0	11.8

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	*	.0	.0	.0	.0	*
1-2	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.2	.0	.0	.0	.0	.2
5-6	.0	*	*	.0	.0	.0	*
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.2	.0	.0	.0	.0	.2

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.0	.0	.0	.0	.0	.0

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.1	.0	.0	.0	.0	.1
1-2	.0	.1	.0	.0	.0	.0	.1
3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.2	.0	.0	.0	.0	.2

PERIOD: (OVER-ALL) 1962-1979

JUNE

AREA 0030 BAJA
29.3N 116.6W

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

S

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	.1	.0	.0	.0	.0	.4
1-2	.1	.4	.0	.0	.0	.0	.5
3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.4	.5	.0	.0	.0	.0	.9

SW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	*	.2	.0	.0	.0	.0	.2
1-2	*	.3	.0	.0	.0	.0	.3
3-4	.1	*	.1	.0	.0	.0	.2
5-6	.0	.0	.2	.0	.0	.0	.2
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.1	.5	.3	.0	.0	.0	1.0

W

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	1.1	.0	.0	.0	.0	1.2
1-2	.2	3.2	.9	.0	.0	.0	4.2
3-4	.0	1.4	1.1	.0	.0	.0	2.6
5-6	.0	.1	.5	.1	.0	.0	.7
7	.0	.0	.1	.0	.0	.0	.1
8-9	.0	.1	.1	.0	.0	.0	.2
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	5.8	2.8	.1	.0	.0	8.9

NW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	1.0	2.6	.2	.0	.0	.0	3.8	
1-2	.4	14.3	7.0	.0	.0	.0	21.7	
3-4	.2	8.8	16.0	.5	.0	.0	25.4	
5-6	.0	2.7	12.3	.8	.0	.0	15.9	
7	.0	.4	3.9	.7	.0	.0	5.0	
8-9	.0	.1	1.3	.2	.0	.0	1.6	
10-11	.0	.0	.3	.1	.0	.0	.3	
12	.0	.0	.2	.0	.0	.0	.2	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	1.6	28.8	41.2	2.2	.0	.0	73.8	96.8

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	5.0	4.6	.4	.0	.0	.0	9.9	
1-2	1.1	20.2	8.7	.0	.0	.0	30.1	
3-4	.2	11.7	19.5	.5	.0	.0	31.9	
5-6	.1	3.2	15.7	.9	.0	.0	19.9	
7	.0	.4	4.6	.7	.0	.0	5.7	
8-9	.0	.2	1.5	.3	.0	.0	2.0	
10-11	.0	.0	.3	.1	.0	.0	.4	
12	.0	.0	.2	.0	.0	.0	.2	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	6.4	40.2	50.9	2.5	.0	.0	100.0	1270

PERIOD: (OVER-ALL) 1949-1979

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	3.4	13.1	18.5	9.4	2.8	1.1	.4	.1	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1547	3
6-7	.3	1.5	9.1	11.0	4.9	1.7	.7	.3	.3	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	947	5
8-9	.1	.7	2.1	2.7	2.7	1.3	.4	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	326	6
10-11	.0	.6	.6	.9	.7	.6	.3	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	123	6
12-13	.0	.0	.5	.4	.1	*	.1	*	*	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	39	6
>13	.0	.0	.0	.1	.0	.2	*	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	10	9
INDET	1.7	1.2	1.6	.9	.1	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	183	3
TOTAL	172	541	1027	807	360	163	62	22	18	1	2	0	0	0	0	0	0	0	0	3175	4
PCT	5.4	17.0	32.3	25.4	11.3	5.1	2.0	.7	.6	*	.1	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

JULY

PERIOD: (PRIMARY) 1950-1973
(OVER-ALL) 1902-1973

AREA 0030 BAJA
29.4N 116.6W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	.0	.1	.4	.0	.0	.0	.0	.4	.1	.0	3.4	.4	5.7		.0	89.8
NE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.4	.0	3.0		.0	92.6
E	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.5	4.4	7.7		.0	82.4
SE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	10.1	.0	12.2		.0	77.7
S	.0	.0	1.5	.0	.0	.0	.0	1.5	.0	.0	6.5	.0	7.7		.0	84.2
SW	.0	.0	.9	.0	.0	.0	.0	.9	.2	.0	6.1	.0	5.0		.0	87.8
W	.0	.0	.2	.0	.0	.0	.0	.2	.2	.3	4.3	.0	8.2		.0	86.9
NW	.1	.1	.2	.0	.0	.0	.0	.4	.1	.1	4.0	.2	7.4		.0	87.9
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	.0
CALM	.7	.0	.0	.0	.0	.0	.0	.7	.0	.0	10.3	.7	11.0		.0	77.2
TOT PCT	.1	*	.3	.0	.0	.0	.0	.4	.1	.1	4.3	.2	7.3		.0	87.6
TOT OBS:	4932															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00&03	.1	.0	.0	.0	.0	.0	.0	.1	.0	.1	3.4	.1	9.0		.0	87.3
06&09	.1	.1	.3	.0	.0	.0	.0	.5	.0	.0	3.2	.0	6.3		.0	90.0
12&15	.1	.0	.8	.0	.0	.0	.0	.9	.2	.2	5.3	.5	6.5		.0	86.4
18&21	.0	.1	.1	.0	.0	.0	.0	.2	.2	.0	5.5	.2	7.3		.0	86.7
TOT PCT	.1	*	.3	.0	.0	.0	.0	.4	.1	.1	4.4	.2	7.3		.0	87.5
TOT OBS:	4374															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	.7	6.2	6.8	.6	.0	.0		14.3	11.5	11.5	13.6	15.0	9.3	15.9	17.3	15.7	13.5
NE	.1	.5	.1	.0	.0	.0		.7	7.1	.7	.0	.2	.8	.9	.4	1.2	.3
E	.2	.2	.1	.0	.0	.0		.5	6.8	.3	.0	.6	.0	.6	.3	.6	.6
SE	.3	.6	.0	.0	.0	.0		.9	5.1	.3	.7	.8	.5	1.0	1.5	1.2	1.4
S	.4	1.0	*	.0	.0	.0		1.5	5.2	.7	.7	1.2	1.6	2.4	1.5	1.5	2.6
SW	.6	1.7	.2	.0	.0	.0		2.5	5.9	1.9	4.6	2.2	5.1	2.6	2.3	2.1	4.3
W	1.5	7.6	2.4	.1	.0	.0		11.5	8.1	13.5	13.4	11.4	11.6	11.5	5.8	10.5	10.2
NW	2.3	29.3	31.5	1.6	.0	.0		64.7	11.5	69.4	65.5	66.3	69.0	59.2	65.1	63.2	63.8
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	3.5							3.5	.0	1.8	1.4	2.2	2.2	5.9	5.8	4.1	3.4
TOT OBS	456	2244	1980	106	0	0	4786		10.4	1073	140	889	186	946	171	1185	178
TOT PCT	9.6	47.1	41.1	2.2	.0	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	2.9	9.1	2.2	.1	.0		14.3	11.5	11.7	14.0	16.1	15.4
NE	.4	.4	*	.0	.0		.7	7.1	.7	.3	.9	1.1
E	.3	.1	.1	.0	.0		.5	6.8	.2	.5	.5	.6
SE	.6	.3	.0	.0	.0		.9	5.1	.4	.8	1.1	1.2
S	1.1	.4	.0	.0	.0		1.5	5.2	.7	1.3	2.2	1.7
SW	1.8	.6	.1	.0	.0		2.5	5.9	2.2	2.7	2.6	2.4
W	4.9	6.0	.5	.0	.0		11.5	8.1	13.5	11.4	10.6	10.5
NW	11.6	42.8	10.1	.2	.0		64.7	11.5	68.9	66.7	60.1	63.3
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	3.5						3.5	.0	1.7	2.2	3.9	4.0
TOT OBS	1289	2846	617	14	0	4766		10.4	1213	1075	1117	1361
TOT PCT	27.0	59.7	12.9	.3	.0		100.0		100.0	100.0	100.0	100.0

JULY

PERIOD: (PRIMARY) 1950-1973
(OVER-ALL) 1902-1973

AREA 0030 BAJA
29.4N 116.6W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	1.7	5.3	44.9	45.7	2.4	.0	.0	11.0	100.0	1213
06&09	2.2	5.1	44.5	45.1	3.1	.0	.0	11.0	100.0	1075
12&15	5.9	6.8	48.5	36.6	2.1	.0	.0	9.8	100.0	1117
18&21	4.0	7.1	49.9	37.6	1.5	.0	.0	9.7	100.0	1361
TOT	165	291	2244	1960	106	0	0	10.4		4766
PCT	3.5	6.1	47.1	41.1	2.2	.0	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	1.8	1.6	4.6	7.0		6.2
NE	.2	*	.4	.4		5.9
E	.2	*	.1	.2		4.7
SE	.2	.1	.1	.4		5.3
S	.1	*	.2	.8		6.7
SW	.4	.2	.3	1.1		6.0
W	1.5	1.0	2.8	5.2		6.2
NW	10.4	5.0	17.2	32.3		6.0
VAR	.0	.0	.0	.0		.0
CALM	.8	.2	.6	1.6		5.6
TOT OBS	505	265	852	1625	3247	6.0
TOT PCT	15.6	8.2	26.2	50.0	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT;NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.3	.2	.7	2.5	4.4	1.6	.6	.1	.1	.1	4.5	
NE	*	*	*	.2	.2	.1	*	.0	.0	*	.3	
E	*	.0	.0	.1	.1	.1	.0	.0	.0	.0	.2	
SE	*	.0	.0	*	.2	.1	.1	*	*	.0	.3	
S	*	.0	.0	.2	.2	.2	*	.1	.0	*	.3	
SW	*	.0	*	.3	.4	.4	*	.1	.0	.0	.6	
W	.2	*	.4	1.9	3.4	1.5	.6	.2	.1	*	3.1	
NW	1.1	.9	3.8	12.6	17.1	6.0	2.3	.7	.3	.2	19.8	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.1	.1	.2	.7	.5	.3	.1	.0	*	.1	1.1	
TOT OBS	62	40	168	600	861	336	123	40	16	15	986	3247
TOT PCT	1.9	1.2	5.2	18.5	26.5	10.3	3.8	1.2	.5	.5	30.4	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM) * OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >50YD	* OR >0
* OR >6500	.7	.9	.9	.9	.9	.9	.9	.9
* OR >5000	1.6	2.0	2.1	2.2	2.2	2.2	2.2	2.2
* OR >3500	4.5	5.7	5.9	6.0	6.0	6.0	6.0	6.0
* OR >2000	12.4	16.0	16.3	16.4	16.4	16.4	16.4	16.4
* OR >1000	32.6	41.9	42.5	42.7	42.7	42.7	42.7	42.7
* OR >600	43.6	59.6	60.8	61.1	61.1	61.1	61.1	61.1
* OR >300	46.2	64.4	66.1	66.4	66.4	66.4	66.4	66.4
* OR >150	46.7	65.6	67.4	67.6	67.6	67.6	67.6	67.6
* OR > 0	47.3	66.7	68.6	69.0	69.2	69.3	69.5	69.5
TOTAL	1545	2180	2244	2256	2261	2265	2271	2272

TOTAL NUMBER OF OBS: 3269

PCT FREQ NH <5/8: 30.5

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
9.9	4.9	5.1	4.6	5.3	4.7	9.0	13.0	42.5	1.1	3486

JULY

PERIOD: (PRIMARY) 1950-1973
(OVER-ALL) 1902-1973

AREA 0030 BAJA
29.4N 110.6W

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.1	.0	.0	*	*	*	.1	.3	.0	*	.5	
	TOT %	.1	.0	.0	*	*	*	.1	.3	.0	*	.5	
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.1	.0	*	*	.0	.0	*	*	.0	.1	.2	
	TOT %	.1	.0	*	*	.0	.0	*	*	.0	.1	.2	
1<2	PCP	.0	.0	.0	.0	.0	.0	*	*	.0	.0	*	
	NO PCP	*	.0	*	*	.0	.0	.0	.2	.0	.1	.3	
	TOT %	*	.0	*	*	.0	.0	*	.2	.0	.1	.4	
2<5	PCP	.0	.0	.0	.0	.0	.0	.0	*	.0	*	*	
	NO PCP	.6	.1	*	*	*	.2	.2	1.9	.0	.2	3.2	
	TOT %	.6	.1	*	*	*	.2	.2	2.0	.0	.2	3.3	
5<10	PCP	.1	.0	.0	.0	*	*	.0	.1	.0	.0	.2	
	NO PCP	4.1	.2	.2	.3	.6	1.0	3.1	18.5	.0	1.2	29.1	
	TOT %	4.2	.2	.2	.3	.6	1.0	3.1	18.6	.0	1.2	29.3	
10+	PCP	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.1	
	NO PCP	9.5	.6	.3	.5	.8	1.3	7.9	43.6	.0	1.7	66.3	
	TOT %	9.5	.6	.3	.5	.8	1.3	7.9	43.7	.0	1.7	66.3	
	TOT OBS												4326
	TOT PCT	14.4	.8	.5	.8	1.5	2.6	11.4	64.8	.0	3.4	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	*	*	*	.0	*	.1	
	4-10	*	.0	.0	*	*	.0	*	.2	.0		.3	
	11-21	*	.0	.0	.0	.0	.0	.0	*	.0		.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	*	.0	.0	*	*	*	.1	.3	.0	*	.5	
1/2<1	0-3	*	.0	*	.0	.0	.0	.0	*	.0	.1	.2	
	4-10	*	.0	.0	*	.0	.0	.0	*	.0		.1	
	11-21	.0	.0	.0	.0	.0	.0	*	.1	.0		.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.1	.0	*	*	.0	.0	*	.1	.0	.1	.3	
1<2	0-3	.0	.0	*	*	.0	.0	*	*	.0	.1	.2	
	4-10	*	.0	.0	.0	.0	.0	*	.2	.0		.3	
	11-21	*	.0	.0	.0	.0	.0	.0	.1	.0		.2	
	22+	.0	.0	.0	.0	.0	.0	.0	*	.0		*	
	TOT %	.1	.0	*	*	.0	.0	*	.4	.0	.1	.6	
2<5	0-3	*	.0	.0	*	.0	*	.1	.1	.0	.3	.6	
	4-10	.4	*	*	*	*	.1	.2	1.6	.0		2.5	
	11-21	.2	*	.0	.0	.0	*	*	.8	.0		1.1	
	22+	*	.0	.0	.0	.0	.0	.0	*	.0		*	
	TOT %	.7	.1	*	.1	*	.1	.3	2.5	.0	.3	4.2	
5<10	0-3	.2	*	*	.1	.1	.2	.4	.5	.0	1.2	2.8	
	4-10	1.7	.1	.1	.2	.4	.8	2.1	7.8	.0		13.0	
	11-21	2.1	*	*	.0	.0	*	.6	9.4	.0		12.1	
	22+	.2	.0	.0	.0	.0	.0	*	.5	.0		.7	
	TOT %	4.0	.1	.2	.2	.6	1.0	3.1	18.3	.0	1.2	28.6	
10+	0-3	.5	.1	.1	.2	.3	.3	.8	1.5	.0	1.7	5.5	
	4-10	3.9	.4	.1	.4	.6	.9	5.2	19.1	.0		30.5	
	11-21	4.6	.1	.1	.0	*	.1	1.9	21.5	.0		28.3	
	22+	.4	.0	.0	.0	.0	.0	*	1.0	.0		1.5	
	TOT %	9.4	.5	.3	.6	.9	1.3	7.9	43.2	.0	1.7	65.8	
	TOT OBS												4573
	TOT PCT	14.3	.8	.5	.9	1.5	2.5	11.4	64.7	.0	3.5	100.0	

PERIOD: (PRIMARY) 1950-1973
(OVER-ALL) 1902-1973

AREA 0030 BAJA
29.4N 116.6W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET,NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00&03	1.0	1.2	4.5	15.6	25.4	10.5	3.3	.9	.4	.1	63.0	37.0	897
06&09	1.1	1.4	5.5	15.5	20.7	7.8	3.4	.7	.8	.5	57.5	42.5	729
12&15	2.1	1.5	6.8	20.7	29.2	11.1	4.1	1.5	.1	.7	77.9	22.1	723
18&21	3.1	.9	4.4	20.7	28.1	11.5	4.0	1.6	.5	.5	75.6	24.4	970
TOT	62	41	172	604	863	343	124	40	16	15	2280	1039	3319
PCT	1.9	1.2	5.2	18.2	26.0	10.3	3.7	1.2	.5	.5	68.7	31.3	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00&03	.2	.2	.5	2.9	28.4	67.9	1135
06&09	.3	.1	.6	3.8	27.6	67.7	1045
12&15	.7	.5	.9	5.3	30.0	62.6	1080
18&21	.7	.4	.6	4.6	28.9	64.7	1335
TOT	22	14	30	192	1326	3031	4615
PCT	.5	.3	.7	4.2	28.7	65.7	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET,NH >4/8),BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <3	1000+ AND3+	NH <5/8 3+ AND	TOTAL OBS
00&03	1.0	6.8	23.8	40.5	35.7	887
06&09	1.1	8.3	25.1	33.7	41.2	713
12&15	2.1	10.5	32.4	46.4	21.2	716
18&21	3.1	8.6	30.6	46.2	23.2	953
TOT	62	276	914	1371	984	3269
PCT	1.9	8.4	28.0	41.9	30.1	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
80/84	.0	*	.0	*	.1	.1	*	*	9	.3
75/79	.0	.0	.0	.1	.5	.6	.4	.1	55	1.6
70/74	.0	.0	.0	.1	1.1	4.0	4.6	1.9	412	11.8
65/69	.0	.0	.0	*	.7	7.3	20.1	12.4	1417	40.5
60/64	.0	.0	.0	*	.2	4.1	24.2	14.6	1512	43.2
55/59	.0	.0	.0	.0	*	.1	1.4	1.2	97	2.8
50/54	.0	.0	.0	.0	.0	.0	.0	*	1	*
TOTAL	0	1	0	7	91	566	1775	1063	3503	100.0
PCT	.0	*	.0	.2	2.6	16.2	50.7	30.3		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
*	.0	*	.0	.0	*	.1	.1	.0	.0
.3	*	.1	.1	*	*	.2	.8	.0	*
1.3	.2	.1	.2	.3	.4	1.3	7.4	.0	.6
5.9	.3	.2	.3	.7	1.1	5.4	24.8	.0	1.7
6.9	.3	.1	.2	.4	.7	3.8	29.7	.0	1.1
.4	.0	.0	*	*	.1	.3	1.9	.0	.1
*	.0	.0	.0	.0	.0	.0	*	.0	.0
14.9	.8	.4	.8	1.5	2.3	11.2	64.6	.0	3.5

TABLE 15

MEANS,EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00&03	84	77	74	67	62	59	56	67.1	1216
06&09	78	73	70	64	60	58	56	64.5	1084
12&15	74	71	68	63	59	57	54	63.6	1131
18&21	82	78	73	66	61	59	55	66.6	1356
TOT	84	76	72	65	60	58	54	65.5	4787

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00&03	.0	.7	4.8	23.5	51.0	20.1	83	902
06&09	.0	.1	.9	8.8	48.9	41.3	87	797
12&15	.0	.0	.4	8.2	49.9	41.6	88	834
18&21	.0	.1	3.8	22.1	51.7	22.3	83	1001
TOT	0	8	91	571	1784	1080	85	3534

JULY

PERIOD: (PRIMARY) 1950-1973
(OVER-ALL) 1902-1973

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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	53 56	57 60	61 64	65 68	69 72	73 76	77 80	81 84	TOT	W FOG	WO FOG
17/19	.0	.0	.0	.0	.0	.0	*	*	2	.0	.1
14/16	.0	.0	.0	*	.0	.0	.1	.0	3	*	.1
11/13	.0	.0	.0	*	.0	.3	.1	.1	16	.1	.4
9/10	.0	.0	*	.2	.3	.4	.3	.0	45	.0	1.1
7/8	.0	.0	.1	.4	.8	.8	.1	*	86	.1	2.1
6	.0	.0	.1	.4	1.1	.3	.1	.0	84	.1	2.0
5	.0	*	.2	.8	1.6	.5	*	.0	126	.2	3.0
4	.0	*	.6	2.1	1.7	.3	.1	.0	188	.3	4.4
3	.0	*	.8	2.5	1.5	.2	.0	.0	200	.1	5.0
2	.0	.1	2.1	4.7	2.3	.3	*	.0	382	.5	9.2
1	.0	.2	2.5	4.4	1.4	.2	.0	.0	344	.4	8.3
0	.0	.3	7.0	6.4	2.1	.1	.0	.0	627	1.2	14.6
-1	.0	.6	6.5	4.8	.9	.1	.0	.0	507	.5	12.2
-2	.0	.9	8.8	3.8	.4	*	.0	.0	556	.4	13.5
-3	.0	1.2	4.6	2.0	.2	*	.0	.0	317	.3	7.6
-4	.0	1.1	3.1	1.2	*	*	.0	.0	216	.1	5.3
-5	*	.7	1.7	.6	.1	.0	.0	.0	126	.1	3.1
-6	.0	.3	1.1	.2	.1	*	.0	.0	67	*	1.7
-7/-8	.1	.3	.7	.4	.0	.0	.0	.0	54	.1	1.3
-9/-10	.0	.1	.2	.2	*	*	.0	.0	23	.1	.5
-11/-13	*	*	.1	.1	.0	.0	.0	.0	7	*	.2
-14/-16	.0	.0	*	.0	.0	.0	.0	.0	1	.0	*
-17/-19	.0	.0	.0	*	.0	.0	.0	.0	1	.0	*
TOTAL	5	234	1598	1398	573	137	29	4	3978	181	3797
PCT	.1	5.9	40.2	35.1	14.4	3.4	.7	.1	100.0	4.6	95.4

PERIOD: (OVER-ALL) 1963-1973

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	.6	.0	.0	.0	.0	.9
1-2	.2	3.0	1.9	.0	.0	.0	5.1
3-4	.1	2.2	3.5	.3	.0	.0	6.1
5-6	.0	.6	2.4	.2	.0	.0	3.2
7	.0	.1	1.4	.3	.0	.0	1.7
8-9	.0	.1	.3	.2	.0	.0	.6
10-11	.0	.0	.0	.3	.0	.0	.3
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.6	6.5	9.6	1.2	.0	.0	17.9

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.1	.0	.0	.0	.0	.1
1-2	*	.2	.0	.0	.0	.0	.2
3-4	.0	.1	*	.0	.0	.0	.1
5-6	.0	.1	.1	.0	.0	.0	.2
7	.0	.1	.0	.0	.0	.0	.1
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	*	.5	.1	.0	.0	.0	.7

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.1	.0	.0	.0	.0	.1
1-2	.0	.1	.1	.0	.0	.0	.1
3-4	.0	.0	.1	.0	.0	.0	.1
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.2	.1	.0	.0	.0	.3

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	*	.0	.0	.0	.0	*
1-2	.0	.2	.0	.0	.0	.0	.2
3-4	.0	.1	.0	.0	.0	.0	.1
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.4	.0	.0	.0	.0	.4

PERIOD: (OVER-ALL) 1963-1973

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AREA 0030 BAJA 29.4N 116.6W

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

S

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.2	.0	.0	.0	.0	.4
1-2	.0	.2	.0	.0	.0	.0	.2
3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.1	.4	.0	.0	.0	.0	.6

SW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.2	.0	.0	.0	.0	.3
1-2	.1	.3	.1	.0	.0	.0	.4
3-4	.1	.1	.1	.0	.0	.0	.3
5-6	.0	*	.0	.0	.0	.0	*
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	.5	.2	.0	.0	.0	1.0

W

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	.5	.0	.0	.0	.0	.9
1-2	.1	3.3	.6	.0	.0	.0	4.0
3-4	.0	1.3	1.2	.0	.0	.0	2.4
5-6	.0	.2	.5	.0	.0	.0	.7
7	.0	.1	.1	.1	.0	.0	.2
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.4	5.4	2.4	.1	.0	.0	8.3

NW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.7	2.6	.2	.0	.0	.0	3.5	
1-2	.7	13.9	8.0	.0	.0	.0	22.6	
3-4	*	8.7	14.6	.3	.0	.0	23.6	
5-6	.0	2.2	9.8	.4	.0	.0	12.4	
7	.0	.4	2.4	.7	.0	.0	3.5	
8-9	.0	.2	.8	.2	.0	.0	1.2	
10-11	.0	.0	.5	.4	.0	.0	.9	
12	.0	.0	.1	.1	.0	.0	.2	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	1.4	28.0	36.6	2.1	.0	.0	68.0	97.1

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	4.5	4.5	.2	.0	.0	.0	9.2	
1-2	1.1	21.1	10.7	.0	.0	.0	32.9	
3-4	.2	12.5	19.4	.5	.0	.0	32.7	
5-6	.0	3.1	12.8	.6	.0	.0	16.4	
7	.0	.7	3.9	1.0	.0	.0	5.5	
8-9	.0	.2	1.2	.4	.0	.0	1.8	
10-11	.0	.0	.5	.7	.0	.0	1.2	
12	.0	.0	.1	.1	.0	.0	.2	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	5.8	42.0	48.8	3.3	.0	.0	100.0	1375

PERIOD: (OVER-ALL) 1949-1973

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	3.5	16.1	20.9	9.9	2.4	.7	.1	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1614	3
6-7	.2	2.8	9.0	9.5	2.9	1.2	.4	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	787	4
8-9	.0	.8	2.0	3.1	1.5	.9	.3	.1	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	262	5
10-11	.0	.8	1.2	.8	.5	.5	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	116	5
12-13	.0	.0	.9	.2	.2	.1	.1	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	44	5
>13	.0	.0	.0	.1	.1	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	8	7
INDET	2.9	.8	1.1	.5	.2	.1	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	177	2
TOTAL	200	641	1054	725	237	104	38	6	3	0	0	0	0	0	0	0	0	0	0	3008	4
PCT	6.6	21.3	35.0	24.1	7.9	3.5	1.3	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

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TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N		.0	.8	.0	.0	.0	.0	1.3	.2	.1	2.9	.1	7.5		.0	88.0
NE		.0	4.7	.0	.0	.0	.0	4.7	.0	2.3	5.2	.0	9.3		.0	78.5
E		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	11.5		.0	88.5
SE		.6	2.4	.0	.0	.0	.0	3.0	.0	.0	3.6	.0	.6		.0	92.7
S	0	1.2	1.6	.0	.0	.0	.0	2.7	.0	.0	3.5	.0	5.9		.0	87.9
SW	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.3	3.5	.0	9.0		.0	86.2
W	.2	.0	.6	.0	.0	.0	.0	.8	.3	.0	2.5	.0	6.3		.2	89.8
NW	.1	.0	.2	.0	.0	.0	.0	.3	.2	.1	2.8	.1	6.0		.0	90.3
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	.0
CALM	.0	.0	.8	.0	.0	.0	.0	.8	.0	.0	7.9	.0	10.3		.0	81.0
TOT PCT	.2	*	.4	.0	.0	.0	.0	.6	.2	.2	3.0	.1	6.5		*	89.5
TOT OBS:	4332															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00&03	.1	.0	.4	.0	.0	.0	.0	.4	.1	.0	1.9	.1	8.3		.0	89.3
06&09	.4	.0	.3	.0	.0	.0	.0	.7	.0	.1	2.8	.0	5.8		.1	90.5
12&15	.2	.1	.6	.0	.0	.0	.0	.9	.5	.6	3.8	.2	4.6		.0	89.3
18&21	.1	.0	.5	.0	.0	.0	.0	.5	.2	.0	3.6	.1	6.8		.0	88.7
TOT PCT	.2	*	.4	.0	.0	.0	.0	.6	.2	.2	3.0	.1	6.5		*	89.4
TOT OBS:	4379															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	1.0	7.0	6.8	.4	.0	.0		15.2	11.1	12.4	20.0	14.5	15.5	14.0	15.9	17.9	18.2
NE	.2	.6	.2	*	.0	.0		.9	7.3	.4	1.6	.8	.0	1.1	1.2	1.4	1.6
E	.1	.5	.1	*	.0	.0		.6	7.9	.5	.4	.6	1.2	1.1	.3	.4	.3
SE	.2	.5	.2	.0	.0	.0		.9	7.6	.7	1.0	.9	.3	1.1	.9	.9	1.8
S	.6	.8	.1	.0	.0	.0		1.4	5.1	1.2	.6	1.6	.9	1.3	.6	1.9	1.2
SW	.6	1.2	.1	.0	.0	.0		1.9	5.6	1.8	2.4	1.9	1.2	1.8	.6	2.2	2.2
W	1.2	6.9	2.2	.1	.0	.0		10.4	8.2	10.9	8.7	10.8	9.2	10.2	9.9	10.1	11.7
NW	3.1	30.4	31.1	1.2	.0	.0		65.7	11.1	70.1	65.3	66.6	70.4	65.4	68.9	60.8	62.5
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	2.9							2.9	.0	2.0	.0	2.3	1.2	4.0	1.8	4.4	.5
TOT OBS	463	2270	1920	79	0	0	4732		10.2	1123	126	867	163	899	164	1206	18
TOT PCT	9.8	48.0	40.6	1.7	.0	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	3.3	9.6	2.3	*	.0		15.2	11.1	13.2	14.6	14.3	18.0
NE	.6	.3	.1	.0	.0		.9	7.3	.5	.7	1.1	1.4
E	.3	.3	*	.0	.0		.6	7.9	.5	.7	1.0	.4
SE	.5	.3	*	.0	.0		.9	7.6	.7	.8	1.1	1.0
S	1.0	.3	*	.0	.0		1.4	5.1	1.1	1.5	1.2	1.8
SW	1.2	.7	*	.0	.0		1.9	5.6	1.9	1.8	1.6	2.2
W	4.3	5.7	.4	.0	.0		10.4	8.2	10.6	10.5	10.2	10.3
NW	12.1	45.6	7.9	.1	.0		65.7	11.1	69.6	67.2	65.9	61.0
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	2.9						2.9	.0	1.8	2.1	3.7	3.9
TOT OBS	1246	2972	508	6	0	4732		10.2	1249	1030	1063	1390
TOT PCT	26.3	62.8	10.7	.1	.0		100.0		100.0	100.0	100.0	100.0

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	1.8	5.1	44.0	46.8	2.2	.0	.0	11.0	100.0	1249
06&09	2.1	5.7	45.1	45.0	1.9	.0	.0	10.8	100.0	1030
12&15	3.7	7.2	51.4	36.2	1.5	.0	.0	9.8	100.0	1063
18&21	3.9	9.0	51.1	35.0	1.1	.0	.0	9.5	100.0	1390
TOT	138	325	2270	1920	79	0	0	10.2		4732
PCT	2.9	6.9	48.0	40.6	1.7	.0	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	3.5	1.7	4.3	5.6		5.3
NE	.2	.1	.3	.3		5.1
E	.2	.3	.1	.1		3.7
SE	.2	*	.2	.4		5.7
S	.3	.2	.4	.5		5.1
SW	.4	.2	.4	.6		5.2
W	2.3	1.0	3.1	3.9		5.4
NW	13.9	7.8	20.7	23.8		5.4
VAR	.0	.0	.0	.0		.0
CALM	.7	.4	.7	1.0		5.1
TOT OBS	730	391	1013	1214	3348	5.4
TOT PCT	21.8	11.7	30.3	36.3	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.2	.1	.6	2.3	3.2	1.7	.3	.2	*	.1	6.3	
NE	.0	.0	*	.1	.2	.1	.0	.1	.0	*	.4	
E	.0	.0	*	.1	.1	.0	.0	.0	.0	.0	.6	
SE	.0	.0	.0	.1	.2	.1	.0	.0	.0	.0	.4	
S	.0	.0	.1	.3	.2	.2	.0	*	.0	*	.6	
SW	*	.0	*	.2	.4	.2	.1	.0	*	*	.8	
W	.2	*	.4	1.7	2.3	1.0	.3	.1	*	.1	4.2	
NW	.8	.4	2.3	10.8	15.2	7.0	2.2	.7	.5	.4	25.7	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.1	.0	.1	.3	.5	.2	.1	*	.0	.1	1.5	
TOT OBS	45	18	121	530	746	354	101	36	20	22	1355	3348
TOT PCT	1.3	.5	3.6	15.8	22.3	10.6	3.0	1.1	.6	.7	40.5	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM) * OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >50YD	* OR >0
* OR >6500	.9	1.2	1.2	1.2	1.2	1.2	1.2	1.2
* OR >5000	1.7	2.3	2.3	2.3	2.3	2.3	2.3	2.3
* OR >3500	4.1	5.3	5.3	5.3	5.3	5.3	5.3	5.3
* OR >2000	12.5	15.8	15.9	15.9	15.9	15.9	15.9	15.9
* OR >1000	30.5	37.7	38.0	38.1	38.1	38.1	38.1	38.1
* OR >600	41.8	53.3	53.9	53.9	54.0	54.0	54.0	54.0
* OR >300	43.8	56.7	57.5	57.6	57.6	57.6	57.6	57.6
* OR >150	44.1	57.2	58.1	58.2	58.2	58.2	58.2	58.2
* OR > 0	44.5	57.9	59.0	59.2	59.3	59.3	59.5	59.5
TOTAL	1503	1955	1990	1998	2001	2002	2007	2008

TOTAL NUMBER OF OBS: 3374

PCT FREQ NH <5/8: 40.5

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
13.2	7.0	7.4	6.3	6.5	6.5	9.2	12.7	30.3	.8	3596

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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.1	.0	.0	*	*	.0	*	.1	.0	*	.3	
	TOT %	.1	.0	.0	*	*	.0	*	.1	.0	*	.3	
1/2<1	PCP	.0	.0	.0	.0	.0	.0	*	*	.0	.0	*	
	NO PCP	*	.0	.0	.0	.0	.0	.0	.1	.0	*	.1	
	TOT %	*	.0	.0	.0	.0	.0	*	.1	.0	*	.2	
1<2	PCP	*	.0	.0	.0	.0	.0	.0	*	.0	.0	*	
	NO PCP	*	*	*	*	*	*	*	.2	.0	*	.4	
	TOT %	*	*	*	*	*	*	*	.2	.0	*	.4	
2<5	PCP	*	.0	.0	*	.0	.0	.0	*	.0	.0	.1	
	NO PCP	.3	*	.0	*	.1	*	.3	1.0	.0	*	1.8	
	TOT %	.4	*	.0	.1	.1	*	.3	1.0	.0	*	1.8	
5<10	PCP	*	*	.0	*	*	.0	.0	.1	.0	*	.2	
	NO PCP	9.7	.3	.2	.2	.4	.3	2.2	14.0	.0	.8	22.1	
	TOT %	9.7	.3	.2	.2	.4	.3	2.2	14.1	.0	.8	22.3	
10+	PCP	.1	*	.0	.0	.0	.0	*	.1	.0	.0	.3	
	NO PCP	10.9	.6	.5	.6	1.0	1.5	7.6	50.2	.0	2.0	74.7	
	TOT %	11.0	.6	.5	.6	1.0	1.5	7.6	50.2	.0	2.0	75.0	
	TOT OBS												4326
	TOT PCT	15.2	1.0	.7	1.0	1.5	1.8	10.2	65.8	.0	2.9	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	*	*	.0	.0	*	.0	*	.1	
	4-10	.1	.0	.0	.0	.0	.0	.1	.1	.0		.2	
	11-21	.0	.0	.0	.0	.0	.0	.0	*	.0		*	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.1	.0	.0	*	*	.0	.1	.2	.0	*	.4	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	*	.0	*	.1	
	4-10	.0	.0	.0	.0	.0	.0	*	*	.0		.1	
	11-21	*	.0	.0	.0	.0	.0	*	.1	.0		.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	*	.0	.0	.0	.0	.0	*	.1	.0	*	.2	
1<2	0-3	.0	*	.0	.0	.0	*	*	*	.0	*	.1	
	4-10	*	.0	.0	*	*	.0	*	.2	.0		.2	
	11-21	*	.0	.0	.0	.0	.0	*	.1	.0		.1	
	22+	.0	*	*	.0	.0	.0	.0	.0	.0		*	
	TOT %	.1	*	*	*	*	*	*	.3	.0	*	.5	
2<5	0-3	.1	*	.0	*	*	.1	*	.1	.0	*	.4	
	4-10	.2	.0	*	*	*	*	.3	1.0	.0		1.6	
	11-21	.2	.0	.0	*	.0	.0	.1	.4	.0		.7	
	22+	.0	.0	.0	.0	.0	.0	.0	*	.0		*	
	TOT %	.4	*	*	.1	.1	.1	.4	1.5	.0	*	2.7	
5<10	0-3	.2	.1	.1	*	.2	.1	.4	.6	.0	.9	2.5	
	4-10	1.6	.2	.1	.1	.2	.2	1.4	6.7	.0		10.4	
	11-21	1.8	*	*	.1	*	*	.4	6.4	.0		8.8	
	22+	.1	.0	.0	.0	.0	.0	.0	.3	.0		.4	
	TOT %	9.7	.3	.2	.2	.4	.3	2.1	13.9	.0	.9	22.1	
10+	0-3	.7	.1	*	.1	.4	.4	.8	2.3	.0	1.9	6.6	
	4-10	5.1	.4	.4	.4	.5	1.0	5.1	22.2	.0		35.1	
	11-21	4.8	.1	.1	.1	*	.1	1.6	24.3	.0		31.1	
	22+	.3	.0	.0	.0	.0	.0	.1	.9	.0		1.2	
	TOT %	10.9	.6	.5	.6	.9	1.5	7.6	49.7	.0	1.9	74.1	
	TOT OBS												4534
	TOT PCT	15.1	.9	.7	.9	1.4	1.9	10.3	65.7	.0	3.0	100.0	

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00&03	.4	.5	3.2	15.0	19.7	8.3	2.7	.9	.3	.6	51.6	48.4	972
06&09	1.3	.8	3.5	10.7	19.5	8.7	2.3	.7	.7	.7	48.9	51.1	745
12&15	1.8	.6	4.8	18.0	25.9	11.5	2.1	.8	.6	.4	66.4	33.6	715
18&21	1.7	.4	3.2	17.5	22.4	12.6	4.2	1.5	.8	.8	65.1	34.9	1034
TOT	45	19	124	536	753	358	101	36	20	22	2014	1452	3466
PCT	1.3	.5	3.6	15.5	21.7	10.3	2.9	1.0	.6	.6	58.1	41.9	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00&03	.0	.0	.3	2.3	20.6	76.8	1192
06&09	.4	.1	.3	2.5	21.6	75.1	1003
12&15	.7	.3	1.0	2.2	24.3	71.6	1018
18&21	.4	.4	.7	3.5	21.9	73.0	1368
TOT	17	10	25	123	1009	3397	4581
PCT	.4	.2	.5	2.7	22.0	74.2	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET, NH >4/8), BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	.4	4.2	20.8	33.3	45.9	934
06&09	1.4	6.1	17.7	32.9	49.4	724
12&15	1.8	7.5	26.0	41.2	32.8	707
18&21	1.8	5.5	23.9	42.9	33.2	1009
TOT	45	191	747	1273	1354	3374
PCT	1.3	5.7	22.1	37.7	40.1	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
90/94	.0	.0	.0	.0	*	.0	.0	.0	1	*
85/89	.0	.1	.0	.0	*	.0	*	.0	4	.1
80/84	.0	.0	.0	.1	.2	.3	.2	.0	29	.8
75/79	.0	.0	*	.2	.5	2.2	1.0	.3	148	4.3
70/74	.0	.0	.0	.2	2.1	8.3	10.9	5.6	942	27.2
65/69	.0	.0	*	.1	.9	7.4	27.0	16.8	1812	52.2
60/64	.0	.0	.0	.1	.0	.9	6.9	7.4	530	15.3
55/59	.0	.0	.0	.0	.0	.1	*	.0	3	.1
TOTAL	0	2	2	23	134	668	1597	1043	3469	100.0
PCT	.0	.1	.1	.7	3.9	19.3	46.0	30.1		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
*	*	.0	.0	.0	.0	.0	.0	.0	.0
.0	*	.0	.0	.0	.0	.0	.1	.0	.0
.2	.1	.1	*	.0	*	*	.3	.0	.1
.7	*	.1	.1	.3	.1	.3	2.4	.0	.3
4.2	.2	.1	.3	.4	.6	3.1	16.8	.0	1.5
7.6	.5	.3	.3	.6	.9	4.8	36.1	.0	1.2
2.6	*	*	*	.1	.2	1.7	10.4	.0	.3
.0	.0	.0	.0	.0	.0	*	.1	.0	.0
15.2	.9	.5	.8	1.4	1.8	9.9	66.2	.0	3.3

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00&03	90	80	76	69	64	61	57	69.7	1247
06&09	91	76	72	67	62	60	54	66.9	1034
12&15	93	75	71	66	62	60	56	66.2	1074
18&21	88	80	76	69	64	61	59	69.2	1389
TOT	93	79	75	68	63	60	54	68.2	4744

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00&03	.0	1.0	4.5	28.0	48.4	18.2	82	943
06&09	.0	.7	1.3	9.5	46.7	41.8	86	766
12&15	.0	.0	1.4	8.4	42.7	47.5	87	787
18&21	.0	1.3	7.0	27.1	45.7	18.8	81	1010
TOT	0	27	134	677	1612	1056	84	3506

PERIOD: (PRIMARY) 1951-1973
(OVER-ALL) 1896-1973

AREA 0030 BAJA
29.4N 116.6W

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	53 56	57 60	61 64	65 68	69 72	73 76	77 80	81 84	85 88	89 92	TOT	W FOG	WO FOG
20/22	.0	.0	.0	.0	.0	.0	.0	.0	*	.0	1	.0	*
17/19	.0	.0	.0	.0	*	*	*	.0	*	*	5	.0	.1
14/16	.0	.0	.0	.0	*	.1	*	.1	*	.0	11	.0	.3
11/13	.0	.0	.0	.1	.1	.3	.2	.1	.0	.0	27	*	.7
9/10	.0	.0	.0	.1	.2	.5	.4	.1	.0	.0	46	.1	1.1
7/8	.0	.0	.1	.1	.6	.9	.3	*	.0	.0	75	.1	1.8
6	.0	.0	.1	.1	.8	.8	.2	*	.0	.0	80	.0	2.0
5	.0	.0	*	.4	1.2	1.1	.3	*	.0	.0	121	.1	3.0
4	.0	.0	.1	1.4	2.3	1.0	.3	.0	.0	.0	199	.2	4.8
3	.0	.0	.1	1.1	2.3	1.1	.1	.0	.0	.0	189	*	4.7
2	.0	*	.6	2.8	4.1	1.2	*	.0	.0	.0	352	.2	8.6
1	.0	*	.4	3.9	3.6	.7	*	.0	.0	.0	344	.2	8.4
0	.0	.1	1.6	6.7	5.0	.6	.1	*	.0	.0	564	.5	13.7
-1	.0	.1	1.8	5.6	3.5	.4	.0	.0	.0	.0	452	.4	11.0
-2	*	.2	3.3	8.1	2.5	.3	.0	.0	.0	.0	574	.6	13.8
-3	.0	*	2.1	4.9	1.5	.1	.0	.0	.0	.0	339	.3	8.2
-4	.0	.2	2.4	3.4	.7	*	.0	.0	.0	.0	265	.1	6.5
-5	.0	.1	1.2	1.6	.6	.0	.0	.0	.0	.0	137	.1	3.4
-6	.0	.1	.8	.8	.1	.0	.0	.0	.0	.0	72	.1	1.7
-7/-8	*	.2	.8	1.0	.1	.1	.0	.0	.0	.0	87	.1	2.1
-9/-10	.0	*	.2	.2	.1	.0	.0	.0	.0	.0	24	*	.6
-11/-13	.0	.1	.1	.2	.1	.0	.0	.0	.0	.0	14	*	.3
-14/-16	.0	.0	.0	*	.0	.0	.0	.0	.0	.0	1	.0	*
TOTAL	2	41	622	1691	1168	358	77	16	3	1	3979	122	3857
PCT	.1	1.0	15.6	42.5	29.4	9.0	1.9	.4	.1	*	100.0	3.1	96.9

PERIOD: (OVER-ALL) 1963-1973

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.6	1.2	.1	.0	.0	.0	1.9
1-2	.4	3.1	1.1	.0	.0	.0	4.6
3-4	.0	2.2	2.5	.1	.0	.0	4.8
5-6	.0	.4	1.5	.1	.0	.0	2.0
7	.0	.1	.4	.0	.0	.0	.5
8-9	.0	.0	.1	.2	.0	.0	.3
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.0	7.0	5.7	.4	.0	.0	14.1

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	.5	.0	.0	.0	.0	.7
1-2	.0	.2	.0	.0	.0	.0	.2
3-4	.0	.2	.2	.0	.0	.0	.3
5-6	.0	.0	.1	.0	.0	.0	.1
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.1	.0	.0	.0	.1
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	.9	.3	.0	.0	.0	1.4

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.1	.1	.0	.0	.0	.3
1-2	.0	.4	.1	.0	.0	.0	.4
3-4	.0	.5	.0	.0	.0	.0	.5
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.1	.0	.0	.0	.1
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.1	.9	.2	.0	.0	.0	1.3

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	*	.2	.0	.0	.0	.0	.3
1-2	.0	.2	.2	.0	.0	.0	.4
3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.1	.0	.0	.0	.0	.1
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	*	.5	.2	.0	.0	.0	.7

PERIOD: (OVER-ALL) 1963-1973 AUGUST AREA 0030 BAJA 29.4N 116.6W

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

S

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.1	.0	.0	.0	.0	.2
1-2	.1	.3	.0	.0	.0	.0	.3
3-4	.1	.1	.1	.0	.0	.0	.3
5-6	.0	.1	.0	.0	.0	.0	.1
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	.5	.1	.0	.0	.0	.9

SW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	.1	.0	.0	.0	.0	.3
1-2	.2	.8	.1	.0	.0	.0	1.1
3-4	.0	.1	*	.0	.0	.0	.1
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.4	1.0	.1	.0	.0	.0	1.5

W

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.6	1.2	.0	.0	.0	.0	1.8
1-2	.3	3.3	.6	.0	.0	.0	4.2
3-4	.1	1.6	.8	.0	.0	.0	2.4
5-6	.0	.3	.1	.0	.0	.0	.4
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.1	.0	.0	.0	.0	.1
10-11	.0	.0	.1	.0	.0	.0	.1
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.9	6.5	1.6	.0	.0	.0	9.0

NW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	1.7	3.0	.3	.0	.0	.0	5.0	
1-2	1.6	16.3	6.4	.0	.0	.0	24.2	
3-4	.4	9.8	14.2	.1	.0	.0	24.6	
5-6	.0	2.2	8.1	.2	.0	.0	10.6	
7	.0	.1	2.4	.2	.0	.0	2.7	
8-9	.0	.1	.5	*	.0	.0	.6	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.1	.1	.0	.0	.0	.1	
13-16	.0	.0	.0	.1	.0	.0	.1	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	3.7	31.5	32.1	.6	.0	.0	67.9	96.8

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	7.2	6.3	.4	.0	.0	.0	13.9	
1-2	2.9	24.4	8.3	.0	.0	.0	35.6	
3-4	.5	14.4	17.6	.2	.0	.0	32.7	
5-6	.0	3.1	9.8	.3	.0	.0	13.1	
7	.0	.1	2.9	.2	.0	.0	3.3	
8-9	.0	.1	.7	.2	.0	.0	1.1	
10-11	.0	.0	.1	.0	.0	.0	.1	
12	.0	.1	.1	.0	.0	.0	.1	
13-16	.0	.0	.0	.1	.0	.0	.1	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	10.5	48.5	39.9	1.0	.0	.0	100.0	1403

PERIOD: (OVER-ALL) 1949-1973

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	4.4	16.4	21.0	7.7	1.8	.7	.1	.1	*	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	1576	3
6-7	.1	3.1	10.6	8.2	3.1	.9	.3	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	798	4
8-9	*	.8	2.7	3.3	1.5	.7	.2	.1	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	281	5
10-11	.0	.7	.7	.8	.7	.3	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	101	5
12-13	.0	.0	.5	.6	.1	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	41	5
>13	.0	.0	.0	.3	.1	.1	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	19	7
INDET	3.2	1.5	1.2	.6	.4	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	205	2
TOTAL	233	679	1108	650	230	83	22	11	2	3	0	0	0	0	0	0	0	0	0	3021	4
PCT	7.7	22.5	36.7	21.5	7.6	2.7	.7	.4	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

SEPTEMBER

PERIOD: (PRIMARY) 1950-1973
(OVER-ALL) 1903-1973

AREA 0030 BAJA
29.4N 116.6W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA				
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	.1	.0	.7	.0	.0	.0	.0	.8	.1	.1	3.0	.6	5.6		.0	89.9
NE	2.4	.0	2.4	.0	.0	.0	.0	4.8	1.2	.0	.8	.0	3.8		.0	89.8
E	2.7	.0	.0	.0	.0	.0	.0	2.7	4.1	.0	9.6	.0	2.7		.0	80.8
SE	2.3	.0	.0	.0	.0	.0	.0	2.3	4.7	.0	7.6	.0	5.3		.0	80.1
S	.0	.0	1.8	.0	.0	.0	.0	1.8	.0	.0	6.8	1.4	10.4		.0	79.7
SW	1.0	.0	.0	.0	.0	.0	1.0	2.1	.0	2.1	4.4	1.3	6.7		.0	83.6
W	.2	.0	.4	.0	.0	.0	.0	.6	.2	.0	3.0	.6	8.0		.3	87.3
NW	*	*	.3	.0	.0	.0	*	.4	.2	*	2.6	.1	7.0		*	89.5
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6.6	.9	19.1		.0	77.4
TOT PCT	.2	*	.4	.0	.0	.0	*	.6	.3	.1	3.0	.3	7.0		*	88.7
TOT OBS:	4213															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA				
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00&03	.4	.0	.2	.0	.0	.0	.1	.7	.2	.2	2.9	.3	7.4		.0	88.3
06&09	.1	.0	.6	.0	.0	.0	.0	.7	.2	.1	1.9	.2	6.7		.1	90.0
12&15	.2	.0	.3	.0	.0	.0	.0	.5	.3	.1	2.4	.2	7.1		.1	89.3
18&21	.1	.1	.5	.0	.0	.0	.1	.6	.4	.0	4.4	.4	6.5		.0	87.6
TOT PCT	.2	*	.4	.0	.0	.0	*	.6	.3	.1	3.0	.3	6.9		*	88.7
TOT OBS:	4244															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	1.0	7.9	10.4	.6	.0	.0		20.0	11.9	18.1	23.0	19.5	22.2	18.8	22.8	21.8	20.2
NE	.1	.7	.2	*	.0	.0		.9	8.0	.7	1.0	.8	.0	1.7	.6	1.0	.0
E	.1	.6	.1	*	.0	.0		.8	7.8	.3	1.4	.7	.6	.8	.6	1.1	1.6
SE	.2	.7	.1	*	.0	.0		1.0	6.9	.7	2.5	.7	.4	.6	1.5	1.6	1.3
S	.4	.7	.2	.1	.0	.0		1.3	7.8	.6	1.8	1.1	2.8	1.2	.7	1.6	2.9
SW	.5	1.5	.2	.1	.0	.0		2.3	7.0	2.3	.8	2.4	1.3	2.4	2.2	2.4	3.0
W	1.2	6.0	1.5	.1	.0	.0		8.8	7.8	7.3	5.5	10.3	7.5	10.6	8.6	8.0	10.1
NW	2.4	27.2	30.5	2.1	.0	.0		62.3	11.8	68.2	61.5	62.5	64.1	60.7	59.6	58.7	58.7
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	2.6							2.6	.0	1.8	2.5	2.0	1.1	3.2	3.5	3.7	2.1
TOT OBS	397	2104	2005	138	0	0	4644		10.9	1067	122	838	176	919	172	1161	189
TOT PCT	8.5	45.3	43.2	3.0	.0	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	3.8	12.4	3.8	.1	.0		20.0	11.9	18.6	20.0	19.4	21.6
NE	.5	.4	*	*	.0		.9	8.0	.7	.6	1.6	.9
E	.4	.3	*	*	.0		.8	7.8	.4	.6	.8	1.2
SE	.5	.5	*	.0	.0		1.0	6.9	.9	.6	.7	1.6
S	.7	.4	.1	.0	.0		1.3	7.8	.7	1.4	1.1	1.8
SW	1.4	.8	.1	.0	.0		2.3	7.0	2.2	2.2	2.4	2.5
W	4.1	4.3	.3	*	.0		8.8	7.8	7.1	9.8	10.3	8.3
NW	11.2	39.7	11.2	.2	.0		62.3	11.8	67.5	62.8	60.5	58.7
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	2.6						2.6	.0	1.9	1.9	3.2	3.5
TOT OBS	1170	2738	724	12	0	4644		10.9	1189	1014	1091	1350
TOT PCT	25.2	59.0	15.6	.3	.0		100.0		100.0	100.0	100.0	100.0

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	1.9	4.3	40.4	49.7	3.8	.0	.0	11.7	100.0	1189
06&09	1.9	4.5	45.4	44.0	4.2	.0	.0	11.4	100.0	1014
12&15	3.2	6.4	47.4	41.2	1.7	.0	.0	10.3	100.0	1091
18&21	3.5	7.9	47.9	38.4	2.3	.0	.0	10.2	100.0	1350
TOT	123	274	2104	2005	138	0	0	10.9		4644
PCT	2.6	5.9	45.3	43.2	3.0	.0	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	6.5	2.6	6.1	4.9		4.8
NE	.3	.1	.4	.3		4.6
E	.3	.1	.1	.3		4.6
SE	.4	*	.3	.2		4.2
S	.5	.1	.4	.4		4.5
SW	.7	.1	.6	.8		4.8
W	3.4	.7	1.8	2.8		4.3
NW	21.1	6.7	16.1	17.8		4.5
VAR	.0	.0	.0	.0		.0
CALM	.9	.4	.7	1.1		4.8
TOT OBS	1101	351	855	920	3227	4.5
TOT PCT	34.1	10.9	26.5	28.5	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.2	.1	.7	2.3	3.8	1.4	.5	.2	.1	.1	10.7	
NE	*	*	*	.1	.4	.1	*	*	.0	.0	.4	
E	*	*	.0	.1	.1	.1	.0	*	.0	.0	.4	
SE	*	.0	*	.1	.2	.1	*	.0	.0	.0	.3	
S	.1	.0	.1	.2	.2	.0	*	.1	.0	.0	.8	
SW	.1	*	.1	.3	.4	.2	.1	.0	.0	.0	1.0	
W	.2	.1	.2	.9	1.8	.5	.2	*	.1	*	4.7	
NW	.8	.3	1.7	7.5	12.3	4.7	2.2	.6	.3	.2	31.1	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	*	.1	.2	.5	.5	.1	.1	.1	.0	*	1.5	
TOT OBS	46	20	100	382	637	230	104	34	15	12	1647	3227
TOT PCT	1.4	.6	3.1	11.8	19.7	7.1	3.2	1.1	.5	.4	51.0	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM) * OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >30YD	* OR >0
* OR >6500	.6	.8	.8	.8	.8	.8	.8	.8
* OR >5000	1.3	1.7	1.9	1.9	1.9	1.9	1.9	1.9
* OR >3500	4.0	4.9	5.1	5.1	5.1	5.1	5.1	5.1
* OR >2000	9.6	11.8	12.2	12.2	12.2	12.2	12.2	12.2
* OR >1000	25.1	31.3	31.9	31.9	32.0	32.0	32.0	32.0
* OR >600	32.6	42.7	43.6	43.7	43.8	43.8	43.8	43.8
* OR >300	34.2	45.4	46.7	46.8	46.9	46.9	46.9	46.9
* OR >150	34.5	45.9	47.3	47.4	47.5	47.5	47.5	47.5
* OR > 0	34.7	46.5	48.3	48.5	48.7	48.8	48.9	49.0
TOTAL	1119	1502	1558	1565	1573	1576	1580	1581

TOTAL NUMBER OF OBS: 3229

PCT FREQ NH <5/8: 51.0

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
22.3	8.7	7.2	6.0	6.1	6.0	7.9	11.3	23.3	1.2	3452

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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
<1/2	NO PCP	*	.0	.0	*	.0	*	*	.1	.0	*	.3	
	TOT %	*	.0	.0	*	.0	*	*	.1	.0	*	.3	
	PCP	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	
1/2<1	NO PCP	*	.0	*	*	.0	.0	*	.1	.0	*	.2	
	TOT %	.1	.0	*	*	.0	.0	*	.1	.0	*	.3	
	PCP	*	.0	.0	.0	*	.0	.0	*	.0	.0	*	
1<2	NO PCP	.1	.0	.0	.0	.0	*	*	.3	.0	.0	.5	
	TOT %	.1	.0	.0	.0	*	*	*	.3	.0	.0	.5	
	PCP	*	.0	.0	.0	.0	*	.0	*	.0	.0	.1	
2<5	NO PCP	.5	*	.1	.1	.1	.1	.3	1.3	.0	.1	2.6	
	TOT %	.6	*	.1	.1	.1	.1	.3	1.3	.0	.1	2.7	
	PCP	*	*	*	*	.0	.0	*	.1	.0	.0	.3	
5<10	NO PCP	4.7	.1	.1	.3	.5	.5	2.1	14.3	.0	.5	23.2	
	TOT %	4.7	.1	.2	.3	.5	.5	2.1	14.4	.0	.5	23.5	
	PCP	*	*	.0	.0	.0	*	*	.1	.0	.0	.2	
10+	NO PCP	14.6	.8	.6	.6	.6	1.6	6.1	45.8	.0	1.8	72.6	
	TOT %	14.6	.8	.6	.6	.6	1.6	6.1	45.9	.0	1.8	72.8	
	TOT OBS												4203
	TOT PCT	20.0	1.0	.9	1.0	1.3	2.3	8.7	62.2	.0	2.5	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	0-3	.0	.0	.0	*	.0	.0	.0	.0	.0	*	*	
<1/2	4-10	.0	.0	.0	*	.0	*	*	.1	.0		.2	
	11-21	*	.0	.0	.0	.0	.0	.0	.1	.0		.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	*	.0	.0	*	.0	*	*	.2	.0	*	.4	
	0-3	.0	.0	.0	.0	.0	.0	*	.0	.0	*	*	
1/2<1	4-10	.1	.0	.0	.0	.0	.0	.0	.1	.0		.1	
	11-21	.0	.0	*	*	.0	.0	.0	.1	.0		.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.1	.0	*	*	.0	.0	*	.1	.0	*	.3	
	0-3	*	.0	.0	.0	.0	.0	.0	.1	.0	.0	.1	
1<2	4-10	.1	.0	.0	.0	.0	*	*	.3	.0		.4	
	11-21	.1	.0	.0	.0	*	.0	*	.1	.0		.2	
	22+	.0	.0	.0	.0	*	.0	.0	.0	.0		*	
	TOT %	.1	.0	.0	.0	*	*	*	.6	.0	.0	.8	
	0-3	.1	.0	.0	.0	*	*	*	.1	.0	.1	.4	
2<5	4-10	.4	*	*	.1	*	.1	.3	.9	.0		1.8	
	11-21	.3	.0	.0	.0	.1	*	.1	.6	.0		1.0	
	22+	.0	*	*	.0	.0	*	*	*	.0		.1	
	TOT %	.7	*	.1	.1	.1	.2	.4	1.6	.0	.1	3.3	
	0-3	.2	*	*	.1	.2	.1	.4	.4	.0	.6	2.0	
5<10	4-10	1.7	.1	.1	.2	.3	.3	1.4	6.4	.0		10.4	
	11-21	2.7	*	*	.1	*	*	.3	6.6	.0		9.8	
	22+	.1	.0	.0	*	*	*	*	.7	.0		1.0	
	TOT %	4.6	.1	.2	.3	.5	.5	2.1	14.2	.0	.6	23.1	
	0-3	.7	.1	.1	.1	.2	.4	.7	1.8	.0	2.0	6.0	
10+	4-10	9.8	.6	.5	.5	.3	1.0	4.3	19.4	.0		32.3	
	11-21	7.5	.1	*	*	.1	.2	1.1	23.0	.0		32.1	
	22+	.5	.0	.0	.0	.0	.0	*	1.3	.0		1.8	
	TOT %	14.5	.8	.6	.6	.6	1.6	6.2	48.5	.0	2.0	72.2	
	TOT OBS												4470
	TOT PCT	20.1	1.0	.8	1.0	1.3	2.3	8.7	62.2	.0	2.7	100.0	

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00&03	.8	.5	3.0	9.5	18.4	8.7	2.7	1.1	.4	.3	45.5	36.5	913
06&09	1.6	.7	3.0	8.9	16.9	4.5	2.5	.8	.0	.1	39.1	60.9	708
12&15	1.5	.6	2.6	13.7	19.0	6.4	3.3	.8	.6	.7	49.2	50.8	717
18&21	1.9	.8	3.5	13.7	21.9	9.3	4.0	1.2	.7	.3	57.1	42.9	983
TOT	48	20	101	383	639	230	106	34	19	12	1588	1733	3321
PCT	1.4	.6	3.0	11.5	19.2	6.9	3.2	1.0	.5	.4	47.8	52.2	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00&03	.3	.2	.8	2.6	20.4	75.7	1149
06&09	.5	.3	.7	2.3	22.9	73.3	993
12&15	.2	.4	.6	3.2	25.5	70.2	1041
18&21	.5	.2	1.1	4.8	24.1	69.4	1325
TOT	17	12	36	149	1044	3244	4502
PCT	.4	.3	.8	3.3	23.2	72.1	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET, NH >4/8), BY HOUR

HOUR (GMT)	<150 <500YD	<600 <1	<1000 <3	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	.8	4.5	15.5	29.8	54.6	888
06&09	1.5	5.4	15.8	25.2	58.9	682
12&15	1.6	4.8	19.9	30.8	49.3	702
18&21	1.9	6.2	21.6	37.4	41.0	957
TOT	46	170	593	1011	1625	3229
PCT	1.4	5.3	18.4	31.3	50.3	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
85/89	.0	.0	.0	.0	.0	.0	*	.0	1	*
80/84	.0	.0	*	.1	.4	.3	.1	.1	34	1.0
75/79	.0	*	.1	.2	.7	2.2	2.2	.5	203	6.0
70/74	.0	.0	*	.3	2.1	7.4	13.0	7.1	1006	29.9
65/69	.0	.0	.0	.1	1.9	8.7	23.7	16.7	1716	51.1
60/64	.0	.0	.0	.0	.4	2.1	5.4	3.9	398	11.9
55/59	.0	.0	.0	.0	.0	.0	*	*	2	.1
TOTAL	0	1	5	24	189	694	1492	953	3358	100.0
PCT	.0	*	.1	.7	5.6	20.7	44.4	28.4		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.0	*	.0	.0	.0	.0	.0	.0
.1	*	.1	.0	*	.1	.2	.6	.0	.0
1.2	.1	.1	.1	.2	.3	.8	3.0	.0	.3
5.5	.5	.4	.6	.5	.7	2.7	17.8	.0	1.2
10.8	.4	.3	.3	.5	.8	4.1	33.0	.0	1.0
2.3	.2	*	.0	*	.3	1.0	7.9	.0	.2
*	.0	.0	.0	.0	.0	.0	*	.0	.0
19.9	1.1	.9	1.1	1.2	2.0	8.7	62.3	.0	2.8

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00&03	87	82	78	70	64	63	59	70.1	1186
06&09	80	75	73	67	63	61	59	67.3	1014
12&15	81	75	72	67	62	61	59	66.8	1090
18&21	85	81	77	70	64	63	59	69.8	1347
TOT	87	80	76	68	63	61	59	68.6	4637

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00&03	.0	1.2	7.9	28.3	45.4	17.1	81	883
06&09	.0	.7	3.5	12.0	44.1	39.7	86	768
12&15	.0	.3	3.1	12.7	41.0	42.9	86	780
18&21	.0	1.4	7.3	26.9	46.7	17.7	81	955
TOT	0	31	191	698	1506	960	83	3386

SEPTEMBER

PERIOD: (PRIMARY) 1950-1973
(OVER-ALL) 1903-1973

AREA 0030 BAJA
29.4N 116.6W

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	57 60	61 64	65 68	69 72	73 76	77 80	81 84	85 88	TOT	W FOG	WO FOG
23/25	.0	.0	.0	.0	.0	.0	*	.0	1	.0	*
20/22	.0	.0	.0	.0	.0	.0	*	.0	1	.0	*
14/16	.0	.0	.0	.0	.1	.0	.1	.1	7	.0	.2
11/13	.0	.0	.0	*	.1	.2	.3	.0	24	*	.6
9/10	.0	.0	*	.1	.2	.5	.2	.0	39	.0	1.0
7/8	.0	.0	.1	.5	1.0	.7	.1	.0	91	.1	2.2
6	.0	.0	.1	.5	1.0	.2	.0	.0	72	.1	1.8
5	.0	.1	.4	1.2	1.0	.5	*	.0	126	.2	3.1
4	.0	.1	.7	2.1	1.4	.2	*	*	176	.1	4.4
3	.0	.1	1.1	2.1	1.2	.2	*	.0	183	.2	4.5
2	.0	.5	2.8	4.0	1.5	.2	.1	.0	353	.2	8.8
1	.0	.6	3.1	4.2	1.0	.1	.0	.0	353	.4	8.6
0	.0	1.2	7.4	3.1	1.0	.1	.0	.0	580	.6	14.2
-1	.0	1.0	6.0	3.2	.4	*	.0	.0	420	.3	10.5
-2	.1	1.9	6.8	3.4	.5	*	.0	.0	498	.5	12.3
-3	*	2.0	4.3	1.8	.2	*	.0	.0	331	.1	8.3
-4	*	2.0	4.0	.9	.1	.0	.0	.0	277	.1	7.0
-5	*	1.1	2.7	.6	.1	*	*	.0	175	.1	4.4
-6	*	.9	1.3	.4	*	.0	.0	.0	104	.1	2.6
-7/-8	.1	.4	1.0	.2	.1	.0	.0	.0	70	.1	1.7
-9/-10	.0	.2	.2	*	.0	.0	.0	.0	18	.0	.5
-11/-13	*	.1	*	.1	*	.0	.0	.0	8	*	.2
-14/-16	.0	.0	.1	*	.0	.0	.0	.0	5	.0	.1
-17/-19	.0	.0	*	.0	.0	.0	.0	.0	1	.0	*
TOTAL	13	476	1653	1193	429	115	31	3	3913	119	3794
PCT	.3	12.2	42.2	30.5	11.0	2.9	.8	.1	100.0	3.0	97.0

PERIOD: (OVER-ALL) 1963-1973

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	1.4	.0	.0	.0	.0	1.7
1-2	.4	4.1	1.9	.0	.0	.0	6.3
3-4	.1	1.4	5.0	.2	.0	.0	6.6
5-6	.0	.4	2.4	.1	.0	.0	2.9
7	.0	.1	1.4	.4	.0	.0	1.9
8-9	.0	.0	.1	.1	.0	.0	.2
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.1	.0	.0	.0	.1
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.8	7.4	10.8	.7	.0	.0	19.7

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	.1	.0	.0	.0	.0	.3
1-2	.0	.4	.1	.0	.0	.0	.5
3-4	.0	.1	.1	.0	.0	.0	.2
5-6	.0	.0	*	.0	.0	.0	*
7	.0	.0	.1	.0	.0	.0	.1
8-9	.0	.0	.0	*	.0	.0	*
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	.7	.3	*	.0	.0	1.2

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.2	.0	.0	.0	.0	.3
1-2	.0	.7	.1	.0	.0	.0	.7
3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.1	.0	.0	.1
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.1	.9	.1	.1	.0	.0	1.0

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.3	.0	.0	.0	.0	.4
1-2	.0	.7	*	.0	.0	.0	.7
3-4	.0	.1	.0	.0	.0	.0	.1
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.1	1.1	*	.0	.0	.0	1.2

PERIOD: (OVER-ALL) 1963-1973

SEPTEMBER

TABLE 18 (CONT)

AREA 0030 BAJA
29.4N 116.6W

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

S

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.3	.0	.0	.0	.0	.3
1-2	.2	.5	.1	.0	.0	.0	.8
3-4	.0	.1	.1	.0	.0	.0	.2
5-6	.0	.0	.1	.0	.0	.0	.1
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.1	.0	.0	.0	.1
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	.9	.3	.0	.0	.0	1.4

SW

1-3	4-10	11-21	22-33	34-47	48+	PCT
.2	.4	.0	.0	.0	.0	.6
.0	1.1	.1	.0	.0	.0	1.1
.0	.4	.1	.0	.0	.0	.6
.0	.0	.1	.0	.0	.0	.1
.0	.0	.1	.1	.0	.0	.2
.0	.0	.0	.0	.0	.0	.0
.0	.0	.0	.1	.0	.0	.1
.0	.0	.0	.0	.0	.0	.0
.0	.0	.0	.0	.0	.0	.0
.0	.0	.0	.0	.0	.0	.0
.0	.0	.0	.0	.0	.0	.0
.0	.0	.0	.0	.0	.0	.0
.0	.0	.0	.0	.0	.0	.0
.0	.0	.0	.0	.0	.0	.0
.0	.0	.0	.0	.0	.0	.0
.0	.0	.0	.0	.0	.0	.0
.0	.0	.0	.0	.0	.0	.0
.0	.0	.0	.0	.0	.0	.0
.0	.0	.0	.0	.0	.0	.0
.0	.0	.0	.0	.0	.0	.0
.2	1.9	.4	.2	.0	.0	2.7

W

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	.9	.0	.0	.0	.0	1.2
1-2	.7	2.6	.3	.0	.0	.0	3.6
3-4	.1	1.7	1.1	.0	.0	.0	3.0
5-6	.0	.1	.4	.0	.0	.0	.6
7	.0	.0	.1	.1	.0	.0	.1
8-9	.0	.1	.1	.0	.0	.0	.1
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.1	.0	.0	.1
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.1	5.4	2.0	.1	.0	.0	8.6

NW

1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
1.1	3.6	.1	.0	.0	.0	4.8	
.3	11.2	6.0	.0	.0	.0	17.6	
.4	9.4	13.9	.3	.0	.0	24.0	
.0	1.7	7.5	.6	.0	.0	9.7	
.0	.1	3.0	.8	.0	.0	3.9	
.0	.0	.6	.5	.0	.0	1.2	
.0	.0	.1	.0	.0	.0	.1	
.0	.0	*	.0	.0	.0	*	
.0	.0	.0	*	.0	.0	*	
.0	.0	.0	.0	.0	.0	.0	
.0	.0	.0	.0	.0	.0	.0	
.0	.0	.0	.0	.0	.0	.0	
.0	.0	.0	.0	.0	.0	.0	
.0	.0	.0	.0	.0	.0	.0	
.0	.0	.0	.0	.0	.0	.0	
.0	.0	.0	.0	.0	.0	.0	
.0	.0	.0	.0	.0	.0	.0	
.0	.0	.0	.0	.0	.0	.0	
1.8	26.0	31.2	2.2	.0	.0	61.2	97.0

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	5.1	7.3	.1	.0	.0	.0	12.5	
1-2	1.7	21.3	8.5	.0	.0	.0	31.5	
3-4	.7	13.2	20.3	.4	.0	.0	34.6	
5-6	.0	2.2	10.5	.7	.0	.0	13.4	
7	.0	.1	4.6	1.4	.0	.0	6.2	
8-9	.0	.1	.9	.7	.0	.0	1.6	
10-11	.0	.0	.1	.1	.0	.0	.1	
12	.0	.0	.1	.0	.0	.0	.1	
13-16	.0	.0	.0	.1	.0	.0	.1	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	7.5	44.2	45.0	3.3	.0	.0	100.0	1348

PERIOD: (OVER-ALL) 1949-1973

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	3.6	15.6	20.0	7.8	2.3	1.2	.4	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1509	3
6-7	.1	2.2	8.7	9.7	4.1	1.1	.5	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	793	5
8-9	.0	.7	1.9	3.2	2.7	.7	.3	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	293	6
10-11	.0	.6	.5	.7	.7	.3	*	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	91	5
12-13	.0	.0	.8	.3	.2	.2	.0	*	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	47	5
>13	.0	.0	.0	.2	.3	.2	.1	*	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	27	8
INDET	2.6	1.6	1.4	.7	.3	.0	*	*	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	197	2
TOTAL	186	613	985	672	314	110	41	20	16	0	0	0	0	0	0	0	0	0	0	2957	4
PCT	6.3	20.7	33.3	22.7	10.6	3.7	1.4	.7	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

OCTOBER

PERIOD: (PRIMARY) 1950-1973
(OVER-ALL) 1885-1973

AREA 0030 BAJA
29.4N 116.6W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	.5	.1	.2	.0	.0	.0	.0	.7	.2	.2	4.7	.2	5.9		.0	88.3
NE	.3	.0	.0	.0	.0	.0	.0	.3	.0	.0	2.8	.0	8.8		.0	88.0
E	2.4	.0	2.4	.0	.0	.0	.0	4.8	2.4	.0	1.8	.0	13.2		.0	77.8
SE	5.2	.0	1.7	.0	.0	.0	.0	6.9	.4	.0	4.3	.0	9.9		.0	78.5
S	1.2	.0	1.6	.0	.0	.0	.0	2.8	1.2	.0	9.3	.0	5.3		.0	81.3
SW	.3	.0	.0	.0	.0	.0	.0	.3	1.4	.7	5.8	.0	7.5		1.4	83.1
W	.1	.0	.3	.0	.0	.0	.0	.4	.7	.3	2.4	.0	6.4		.0	89.8
NW	.1	.1	.1	.0	.0	.0	.0	.4	.1	.1	5.1	.1	6.7		.1	87.6
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	.0
CALM	.0	.0	.8	.0	.0	.0	.0	.8	.0	.0	8.5	.0	7.7		.0	83.1
TOT PCT	.3	.1	.2	.0	.0	.0	.0	.6	.2	.1	4.9	.1	6.6		.1	87.4
TOT OBS:	4429															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00&03	.3	.1	.1	.0	.0	.0	.0	.4	.1	.0	3.2	.1	8.3		.2	87.8
06&09	.6	.1	.5	.0	.0	.0	.0	1.2	.3	.3	4.3	.0	5.6		.0	88.4
12&15	.3	.0	.1	.0	.0	.0	.0	.4	.2	.3	5.1	.2	5.2		.0	88.8
18&21	.2	.2	.2	.0	.0	.0	.0	.5	.3	.0	6.6	.1	7.3		.1	85.2
TOT PCT	.3	.1	.2	.0	.0	.0	.0	.6	.2	.1	4.9	.1	6.6		.1	87.4
TOT OBS:	4452															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	.9	10.3	10.2	.5	.0	.0		21.9	11.3	19.3	23.7	22.6	21.0	22.5	23.9	22.6	24.6
NE	.3	1.1	.3	*	.0	.0		1.8	7.8	.4	1.7	1.8	3.1	2.1	4.2	2.3	1.1
E	.2	.5	.1	*	.0	.0		.9	7.6	.4	.4	1.3	.6	1.1	1.3	.7	1.6
SE	.3	.8	.2	.0	.0	.0		1.3	6.9	1.1	.6	1.0	1.1	1.7	1.1	1.5	.0
S	.4	.8	.2	.0	.0	.0		1.3	6.1	1.2	2.4	.8	1.1	1.9	.5	1.5	.3
SW	.3	1.0	.2	*	.0	.0		1.6	6.9	1.8	1.5	2.2	1.1	1.6	1.3	1.2	1.3
W	.9	5.1	2.3	.1	*	.0		8.4	8.9	8.7	4.7	8.3	8.1	9.1	7.8	8.0	8.8
NW	2.0	28.0	28.0	1.8	*	.0		59.9	11.5	65.0	64.4	58.8	60.9	56.3	56.2	58.5	61.2
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	3.0							3.0	.0	1.9	.7	3.2	2.8	3.7	3.7	3.8	1.1
TOT OBS	408	2330	2038	126	3	0	4905		10.6	1122	134	908	176	989	190	1199	187
TOT PCT	8.3	47.5	41.5	2.6	.1	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	4.4	14.0	3.5	*	.0		21.9	11.3	19.8	22.3	22.7	22.9
NE	.8	.9	.1	*	.0		1.8	7.8	.6	2.0	2.4	2.2
E	.5	.3	.1	*	.0		.9	7.6	.4	1.2	1.2	.8
SE	.7	.5	*	.0	.0		1.3	6.9	1.1	1.0	1.6	1.3
S	.9	.5	*	.0	.0		1.3	6.1	1.4	.9	1.7	1.4
SW	1.0	.6	.1	.0	.0		1.6	6.9	1.8	2.1	1.5	1.2
W	3.2	4.4	.7	*	.0		8.4	8.9	8.3	8.3	8.9	8.1
NW	10.3	40.5	8.8	.3	.0		59.9	11.5	64.9	59.1	56.3	58.8
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	3.0						3.0	.0	1.8	3.1	3.7	3.2
TOT OBS	1212	3026	651	16	0	4905		10.6	1256	1084	1179	1386
TOT PCT	24.7	61.7	13.3	.3	.0		100.0		100.0	100.0	100.0	100.0

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	1.8	4.1	43.6	47.5	3.1	.0	.0	11.3	100.0	1256
06&09	3.1	4.2	47.0	42.3	3.3	.1	.0	10.9	100.0	1084
12&15	3.7	6.2	49.7	38.5	1.8	.1	.0	10.2	100.0	1179
18&21	3.2	6.8	49.6	38.2	2.2	.1	.0	10.0	100.0	1386
TOT	145	263	2330	2038	126	3	0	10.6		4905
PCT	3.0	5.4	47.5	41.5	2.6	.1	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	9.1	3.0	5.4	5.0		3.9
NE	1.0	.3	.3	.2		2.6
E	.4	.1	.3	.2		3.8
SE	.5	.1	.4	.3		4.4
S	.3	.2	.3	.5		4.9
SW	.5	.1	.5	.4		5.0
W	3.1	1.1	2.1	2.2		4.3
NW	21.4	8.7	15.7	13.6		4.2
VAR	.0	.0	.0	.0		.0
CALM	1.1	.4	.5	.9		4.2
TOT OBS	1303	489	885	808	3485	4.1
TOT PCT	37.4	14.0	25.4	23.2	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.5	.2	.7	2.1	3.1	1.8	.6	.1	*	*	13.4	
NE	.0	.0	*	.1	.1	.1	.1	.0	*	.0	1.3	
E	.0	*	.0	.1	.1	.1	.0	.0	.0	.0	.7	
SE	*	.0	*	.1	.1	.1	.1	.0	.0	.0	.8	
S	*	.0	*	.1	.4	*	.1	.0	.0	.0	.6	
SW	.0	.0	.1	.3	.2	.1	.1	.0	.0	*	.7	
W	.1	.1	.1	.8	1.6	.8	.2	.1	.1	.0	4.6	
NW	1.0	.3	1.2	5.3	9.8	4.8	1.7	.6	.3	.1	34.1	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.2	.0	.1	.3	.2	.2	.1	*	*	.0	1.8	
TOT OBS	64	20	79	324	544	278	101	28	15	7	2025	3485
TOT PCT	1.8	.6	2.3	9.3	15.6	8.0	2.9	.8	.4	.2	58.1	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NH)

CEILING (FEET)	VSBY (NM) * OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >50YD	* OR >0
* OR >6500	.4	.5	.6	.6	.6	.6	.6	.6
* OR >5000	1.1	1.3	1.4	1.4	1.4	1.4	1.4	1.4
* OR >3500	3.6	4.2	4.3	4.3	4.3	4.3	4.3	4.3
* OR >2000	10.1	12.0	12.3	12.3	12.3	12.3	12.3	12.3
* OR >1000	22.2	27.4	27.9	27.9	27.9	27.9	27.9	27.9
* OR >600	28.5	36.3	37.0	37.1	37.2	37.2	37.2	37.2
* OR >300	29.7	38.3	39.3	39.4	39.5	39.5	39.5	39.5
* OR >150	29.8	38.6	39.8	39.9	40.0	40.1	40.1	40.1
* OR > 0	30.0	39.1	40.5	40.7	41.2	41.4	41.7	41.8
TOTAL	1044	1361	1409	1417	1433	1440	1451	1455

TOTAL NUMBER OF OBS: 3482

PCT FREQ NH <5/8: 58.2

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
24.7	9.0	9.6	8.0	5.9	5.5	8.0	10.0	18.0	1.3	3676

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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	*	.0	.0	.0	.0	.0	.0	.0	*	
	NO PCP	.2	.0	.0	*	*	.0	*	.4	.0	*	.6	
	TOT %	.2	.0	*	*	*	.0	*	.4	.0	*	.7	
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	*	.0	.0	*	
	NO PCP	.1	.0	.0	.0	.0	.0	*	.3	.0	.1	.4	
	TOT %	.1	.0	.0	.0	.0	.0	*	.3	.0	.1	.5	
1<2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.2	*	.0	.0	.0	*	*	.5	.0	.1	.9	
	TOT %	.2	*	.0	.0	.0	*	*	.5	.0	.1	.9	
2<5	PCP	*	.0	.0	*	.0	.0	.0	*	.0	.0	.1	
	NO PCP	.7	*	*	*	.1	.1	.2	1.7	.0	.1	3.0	
	TOT %	.8	*	*	*	.1	.1	.2	1.7	.0	.1	3.0	
5<10	PCP	.1	*	*	*	*	*	.0	.1	.0	.0	.3	
	NO PCP	4.4	.4	.2	.3	.3	.4	1.9	12.0	.0	.5	20.4	
	TOT %	4.5	.4	.2	.3	.3	.4	1.9	12.1	.0	.5	20.7	
10+	PCP	.1	.0	.0	*	.0	.0	*	.1	.0	*	.2	
	NO PCP	16.4	1.3	.7	.9	.9	1.2	6.2	44.4	.0	2.1	74.1	
	TOT %	16.5	1.3	.7	.9	.9	1.2	6.3	44.4	.0	2.1	74.3	
	TOT OBS												4415
	TOT PCT	22.2	1.8	.9	1.3	1.4	1.7	8.3	59.4	.0	2.9	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	*	.0	.0	*	*	.0	*	.1	.0	.1	.2	
	4-10	.1	.0	.0	.0	.0	.0	*	.3	.0		.4	
	11-21	.0	.0	.0	.0	.0	.0	.0	*	.0		*	
	22+	.0	.0	*	.0	.0	.0	.0	.0	.0		*	
	TOT %	.2	.0	*	*	*	.0	*	.4	.0	.1	.7	
1/2<1	0-3	*	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	
	4-10	*	.0	.0	.0	.0	*	*	.2	.0		.3	
	11-21	.1	.0	.0	.0	.0	.0	*	.1	.0		.2	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.1	.0	.0	.0	.0	*	*	.3	.0	.1	.6	
1<2	0-3	*	.0	.0	.0	.0	*	*	.0	.0	.1	.2	
	4-10	.1	.0	.0	.0	.0	.0	.0	.3	.0		.4	
	11-21	.1	*	.0	.0	.0	.0	.0	.3	.0		.4	
	22+	.0	.0	.0	.0	.0	.0	.0	.1	.0		.1	
	TOT %	.2	*	.0	.0	.0	*	*	.6	.0	.1	1.0	
2<5	0-3	.1	*	*	*	.1	*	*	.1	.0	.1	.5	
	4-10	.4	*	.0	*	*	*	.1	1.1	.0		1.7	
	11-21	.3	.0	.0	*	*	*	*	.8	.0		1.1	
	22+	.0	*	*	.0	.0	*	*	*	.0		.1	
	TOT %	.8	*	*	.1	.1	.1	.2	2.0	.0	.1	3.5	
5<10	0-3	.1	.1	*	.1	.1	.1	.2	.5	.0	.6	1.6	
	4-10	2.4	.2	.1	.2	.2	.3	1.2	5.7	.0		10.3	
	11-21	1.9	.1	*	*	*	.1	.3	5.4	.0		7.8	
	22+	.1	*	.0	.0	.0	*	*	.4	.0		.6	
	TOT %	4.4	.4	.2	.3	.3	.4	1.8	12.0	.0	.6	20.3	
10+	0-3	.6	.2	.2	.2	.3	.2	.6	1.3	.0	2.0	5.6	
	4-10	7.2	.8	.4	.6	.5	.7	3.7	20.2	.0		34.1	
	11-21	8.0	.3	.1	.1	.1	.1	1.9	21.7	.0		32.2	
	22+	.5	*	.0	.0	.0	*	.1	1.4	.0		2.0	
	TOT %	16.3	1.3	.6	.9	.9	1.1	6.3	44.5	.0	2.0	73.9	
	TOT OBS												4698
	TOT PCT	22.0	1.7	.9	1.3	1.3	1.6	8.4	59.8	.0	2.9	100.0	

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET,NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00&03	.7	.6	2.5	7.1	15.0	7.7	2.6	.9	.2	.5	37.8	62.2	934
06&09	1.1	.6	1.3	8.3	13.7	6.7	2.4	.4	.5	.3	35.3	64.7	793
12&15	2.5	.6	3.0	10.8	16.8	7.2	2.1	.9	.4	.0	44.3	55.7	804
18&21	2.7	.4	2.2	10.2	15.5	9.3	3.9	1.0	.6	.0	45.9	54.1	1038
TOT	64	20	80	325	545	280	101	28	15	7	1465	2104	3569
PCT	1.8	.6	2.2	9.1	15.3	7.8	2.8	.8	.4	.2	41.0	59.0	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00&03	.3	.4	1.0	3.4	18.8	76.2	1194
06&09	.7	.4	.6	3.4	20.8	74.2	1053
12&15	.6	1.0	1.0	3.7	21.2	72.4	1125
18&21	1.2	.5	1.2	3.3	20.9	72.9	1350
TOT	33	27	45	163	964	3490	4722
PCT	.7	.6	1.0	3.5	20.4	73.9	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET,NH >4/8),BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	.8	4.0	13.5	26.9	59.6	919
06&09	1.0	3.1	14.0	24.0	61.9	770
12&15	2.6	6.5	19.0	27.6	53.4	784
18&21	2.5	5.5	17.8	30.3	51.8	1009
TOT	60	167	561	954	1967	3482
PCT	1.7	4.8	16.1	27.4	56.5	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
80/84	.0	*	.0	.1	.2	.1	.0	.0	18	.5
75/79	*	.0	.1	.4	.7	1.4	.6	.2	122	3.4
70/74	.0	.0	*	.6	2.7	5.8	6.3	2.4	646	17.8
65/69	.0	*	*	.6	3.4	13.3	22.5	12.1	1883	51.9
60/64	.0	.0	.2	.4	2.1	5.0	11.1	7.1	936	25.8
55/59	.0	.0	.0	.1	.1	.1	.1	.2	21	.6
TOTAL	1	2	10	79	333	935	1471	795	3626	100.0
PCT	*	.1	.3	2.2	9.2	25.8	40.6	21.9		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
	.1	*	.0	.0	.0	*	*	.3	.0	.0
	.7	.1	*	*	.1	.1	.2	1.9	.0	.1
	4.4	.6	.3	.3	.2	.4	1.7	9.4	.0	.5
	11.4	.7	.3	.6	.7	.8	4.4	31.6	.0	1.5
	5.8	.4	.2	.3	.4	.5	2.2	15.4	.0	.8
	.1	*	*	.0	.0	.1	*	.3	.0	*
	22.4	1.7	.9	1.3	1.4	1.8	8.6	58.8	.0	3.0

TABLE 15

MEANS,EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00&03	83	79	75	67	63	61	57	68.0	1248
06&09	81	73	71	65	61	59	56	65.7	1087
12&15	80	73	70	65	61	59	57	65.2	1177
18&21	85	78	75	68	63	60	57	68.2	1377
TOT	85	78	74	66	62	60	56	66.9	4889

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00&03	.1	3.2	10.2	30.0	40.8	15.6	80	909
06&09	.0	1.2	5.1	20.4	44.6	28.7	83	823
12&15	.0	1.8	6.2	20.6	40.6	30.9	83	875
18&21	.0	3.7	13.9	30.7	37.2	14.5	78	1040
TOT	1	93	334	940	1480	799	81	3647

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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	53 56	57 60	61 64	65 68	69 72	73 76	77 80	81 84	TOT	W FOG	WO FOG
17/19	.0	.0	.0	.0	.0	.0	.0	*	1	.0	*
14/16	.0	.0	.0	*	*	*	.1	.0	9	.0	.2
11/13	.0	.0	.0	.1	*	.1	.4	.1	31	.0	.8
9/10	.0	.0	.0	.1	.1	.3	.2	.1	32	*	.8
7/8	.0	.0	*	.1	.4	.6	.2	.0	55	*	1.3
6	.0	.0	.0	.2	.7	.3	.1	.0	53	*	1.2
5	.0	.0	.1	.4	1.1	1.0	.2	*	119	.1	2.8
4	.0	.0	.3	1.0	1.8	.7	*	*	159	.2	3.6
3	.0	.0	.2	1.3	1.9	.7	*	.0	166	.2	3.8
2	.0	*	.7	3.1	2.8	.6	*	.0	298	.4	6.9
1	.0	*	.7	3.3	2.5	.5	*	.0	292	.3	6.8
0	.0	.1	1.8	7.6	3.3	.3	*	.0	546	.5	12.7
-1	.0	*	2.4	6.8	1.9	.1	.0	.0	462	.5	10.7
-2	*	.1	4.5	7.3	1.5	.1	*	.0	564	.6	13.0
-3	.0	.1	4.5	4.9	1.2	*	.0	.0	448	.8	10.0
-4	.0	.2	4.4	4.0	.7	*	*	.0	388	.5	8.9
-5	.0	.2	2.4	2.1	.2	.0	*	.0	203	.2	4.7
-6	.0	.3	1.6	1.0	.2	*	.0	.0	127	.2	2.9
-7/-8	.0	.3	1.3	1.0	.2	.0	.0	.0	114	.1	2.7
-9/-10	.0	.1	.4	.4	.1	.1	.0	.0	41	*	1.0
-11/-13	.0	.1	*	.1	*	.0	.0	.0	12	.0	.3
-14/-16	.0	.0	.0	.1	*	.0	.0	.0	5	.0	.1
-17/-19	.0	.0	*	.0	.0	.0	.0	.0	1	.0	*
TOTAL	1	72	1042	1855	856	225	65	11	4127	199	3928
PCT	*	1.7	25.2	44.9	20.7	5.5	1.6	.3	100.0	4.8	95.2

PERIOD: (OVER-ALL) 1963-1973

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	1.2	.1	.0	.0	.0	1.6
1-2	.3	5.0	2.4	.0	.0	.0	7.7
3-4	.1	3.0	5.5	.2	.0	.0	8.7
5-6	.0	.4	3.4	.4	.0	.0	4.2
7	.0	.3	.9	.1	.0	.0	1.3
8-9	.0	.1	.2	.3	.0	.0	.6
10-11	.0	.1	.0	.0	.0	.0	.1
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.7	10.1	12.5	1.0	.0	.0	24.2

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.4	.2	.0	.0	.0	.0	.7
1-2	*	.3	.2	.0	.0	.0	.4
3-4	.0	.2	.2	*	.0	.0	.4
5-6	.0	.1	.2	.0	.0	.0	.2
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.4	.7	.6	*	.0	.0	1.7

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.1	.0	.0	.0	.0	.2
1-2	.0	.2	.0	.0	.0	.0	.2
3-4	.0	.1	.1	.0	.0	.0	.1
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.1	.0	.0	.1
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.1	.4	.1	.1	.0	.0	.6

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.1	.0	.0	.0	.0	.1
1-2	.1	.5	.1	.0	.0	.0	.7
3-4	.0	.2	.3	.0	.0	.0	.4
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	.8	.4	.0	.0	.0	1.4

PERIOD: (OVER-ALL) 1963-1973 OCTOBER AREA 0030 BAJA

TABLE 18 (CONT) 29.4N 116.6W

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

	S							SW						
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.1	.0	.0	.0	.0	.1	.2	.1	.0	.0	.0	.0	.3
1-2	.1	.1	.0	.0	.0	.0	.2	*	.4	.0	.0	.0	.0	.4
3-4	.0	.1	.0	.0	.0	.0	.1	.0	.3	*	.0	.0	.0	.3
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	.0	.0	*
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.1	.2	.0	.0	.0	.0	.3	.2	.8	*	*	.0	.0	1.0

	W							NW							TOTAL
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	PCT
<1	.2	.6	.1	.0	.0	.0	.9	.6	1.7	.1	.0	.0	.0	2.3	
1-2	.2	2.5	.6	.0	.0	.0	3.3	.9	13.4	6.1	.0	.0	.0	20.4	
3-4	.1	.6	1.0	.0	.0	.0	1.7	.1	9.5	12.3	.4	.0	.0	22.2	
5-6	.0	.1	.3	.1	.0	.0	.5	.1	2.8	7.6	.7	.0	.0	11.2	
7	.0	.0	.1	.0	.0	.0	.1	.0	.5	2.2	.7	.0	.0	3.4	
8-9	.0	.0	.1	.0	.0	.0	.1	.0	*	.6	.1	.0	.0	.8	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.2	.1	.1	.0	.0	.4	
12	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.1	.0	.0	.1	
13-16	.0	.1	.0	.0	.0	.0	.1	.0	*	.1	.1	.0	.0	.2	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.5	4.0	2.1	.1	.0	.0	6.6	1.6	28.1	29.1	2.1	.0	.0	60.8	96.4

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	5.3	4.2	.2	.0	.0	.0	9.7	
1-2	1.7	22.4	9.3	.0	.0	.0	33.4	
3-4	.2	13.7	19.3	.5	.0	.0	33.8	
5-6	.1	3.3	11.5	1.2	.0	.0	16.1	
7	.0	.8	3.2	.8	.0	.0	4.7	
8-9	.0	.1	.9	.5	.0	.0	1.5	
10-11	.0	.2	.1	.1	.0	.0	.4	
12	.0	.1	.0	.1	.0	.0	.1	
13-16	.0	.1	.1	.1	.0	.0	.2	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
								1463
TOT PCT	7.2	45.0	44.6	3.2	.0	.0	100.0	

PERIOD: (OVER-ALL) 1949-1973 TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	3.7	15.3	18.7	7.8	2.3	.6	.1	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1552	3
6-7	.2	1.8	9.5	9.4	3.5	1.3	.2	.1	.2	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	830	5
8-9	.1	1.2	3.0	3.7	1.9	1.1	.4	.2	.3	*	*	.0	.0	.0	.0	.0	.0	.0	.0	383	5
10-11	.0	.4	1.0	1.6	1.0	.7	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	155	5
12-13	.0	.0	.7	.5	.4	.3	.1	.1	*	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	65	6
>13	.0	.0	.0	.3	.2	.2	.1	.1	*	*	*	.0	.0	.0	.0	.0	.0	.0	.0	33	8
INDET	2.3	1.3	.9	.5	.2	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	169	2
TOTAL	198	634	1077	755	303	135	36	23	19	2	5	0	0	0	0	0	0	0	0	3187	4
PCT	6.2	19.9	33.8	23.7	9.5	4.2	1.1	.7	.6	.1	.2	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

NOVEMBER

PERIOD: (PRIMARY) 1948-1973
(OVER-ALL) 1861-1973

AREA 0030 BAJA
29.3N 116.9W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG	DUST BLWG SNOW	NO SIG WEA
N	.1	*	.0	.0	.0	.0	.0	.2	.4	.2	2.8	.2	4.5	.2		91.7
NE	.6	.0	.6	.0	.0	.0	.0	1.1	.7	.6	3.3	.0	3.4	.1		90.8
E	.9	1.2	1.2	.0	.0	.0	.0	3.2	2.1	.0	2.3	1.2	2.6	.9		87.7
SE	2.4	1.9	1.4	.0	.0	.0	.0	5.7	3.1	.0	3.3	.9	.9	.0		86.0
S	1.8	.0	0.5	.0	.0	.0	.0	7.3	4.7	.0	2.3	.0	2.1	.0		83.6
SW	1.0	1.2	1.5	.0	.0	.0	.0	3.6	2.4	1.2	8.3	.0	2.2	.0		82.2
W	.4	.8	.4	.0	.0	.0	.0	1.7	1.0	.5	4.6	.3	2.6	.0		89.2
NW	.5	.2	.4	.0	.0	.0	.0	1.1	.9	.1	2.8	.3	3.6	*		91.3
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.7	.0	10.4	.0	4.4	.0		84.6
TOT PCT	.5	.3	.5	.0	.0	.0	.0	1.2	1.0	.2	3.3	.2	3.6	.1		90.4
TOT OBS:	4103															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG	DUST BLWG SNOW	NO SIG WEA
00&03	.3	.5	.5	.0	.0	.0	.0	1.2	1.1	.1	3.6	.4	4.3	.2		89.1
06&09	.3	.0	.5	.0	.0	.0	.0	.9	1.2	.4	2.9	.3	3.6	.0		90.7
12&15	.6	.3	.6	.0	.0	.0	.0	1.5	.5	.3	3.3	.2	2.8	.0		91.4
18&21	.7	.5	.3	.0	.0	.0	.0	1.4	1.1	.1	4.3	.1	3.4	.1		89.6
TOT PCT	.5	.3	.5	.0	.0	.0	.0	1.3	1.0	.2	3.6	.2	3.6	.1		90.1
TOT OBS:	4165															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	2.1	12.6	10.0	.8	*	.0		25.5	10.6	22.7	30.1	26.0	20.3	25.3	32.0	26.5	31.5
NE	.7	2.5	1.0	.1	.0	.0		4.3	8.5	2.5	5.9	3.5	4.4	5.6	7.2	4.6	5.5
E	.6	1.1	.3	*	.0	.0		2.0	7.0	1.2	1.2	1.8	1.7	2.5	1.8	2.7	2.0
SE	.4	1.4	.7	*	.0	.0		2.5	8.7	2.0	.4	2.5	1.9	2.6	2.7	3.1	2.7
S	.4	1.3	.5	.0	.0	.0		2.2	7.3	3.2	.8	2.2	2.4	1.6	1.0	2.1	1.5
SW	.5	1.5	.5	*	.0	.0		2.4	7.5	2.6	3.0	2.1	2.7	2.5	1.9	2.5	1.7
W	1.0	5.1	1.8	.1	*	.0		8.0	8.6	8.1	7.7	6.8	9.6	8.0	9.8	8.0	7.9
NW	2.4	24.4	21.0	1.7	.1	.0		49.5	11.2	55.2	45.5	51.3	52.3	48.4	41.1	49.9	44.0
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	3.6							3.6	.0	2.5	5.5	3.8	4.8	3.5	2.4	4.5	3.4
TOT OBS	532	2275	1634	132	5	0	4578		10.0	1097	127	797	188	894	206	1091	178
TOT PCT	11.6	49.7	35.7	2.9	.1	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	6.9	14.9	3.7	.1	.0		25.5	10.6	23.4	24.9	26.5	27.2
NE	2.0	1.9	.3	*	.0		4.3	8.5	2.9	3.7	5.9	4.7
E	1.2	.7	.1	*	.0		2.0	7.0	1.2	1.8	2.4	2.6
SE	1.2	1.1	.2	.0	.0		2.5	8.7	1.8	2.4	2.6	3.0
S	1.3	.8	.1	.0	.0		2.2	7.3	3.0	2.3	1.5	2.0
SW	1.2	1.1	.1	.0	.0		2.4	7.5	2.6	2.2	2.4	2.4
W	3.6	3.8	.5	.1	.0		8.0	8.6	8.1	7.3	8.4	8.0
NW	11.4	29.8	8.1	.2	.0		49.5	11.2	54.2	51.4	47.1	45.6
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	3.6						3.6	.0	2.8	4.0	3.3	4.3
TOT OBS	1477	2473	605	23	0	4578		10.0	1224	985	1100	1269
TOT PCT	32.3	54.0	13.2	.5	.0		100.0		100.0	100.0	100.0	100.0

NOVEMBER

PERIOD: (PRIMARY) 1948-1973
(OVER-ALL) 1861-1973

AREA 0030 BAJA
29.3N 116.5W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	2.8	8.5	48.7	36.4	3.4	.2	.0	10.3	100.0	1224
06&09	4.0	6.6	48.9	37.3	3.2	.0	.0	10.2	100.0	985
12&15	3.3	8.7	50.2	35.1	2.6	.1	.0	9.8	100.0	1100
18&21	4.3	8.1	50.8	34.3	2.3	.2	.0	9.7	100.0	1269
TOT	164	368	2275	1634	132	5	0	10.0		4578
PCT	3.6	8.0	49.7	35.7	2.9	.1	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	12.7	3.7	6.0	2.8		3.1
NE	2.6	.4	.5	.3		2.1
E	1.1	.2	.6	.2		3.1
SE	1.0	.3	.8	.7		4.5
S	.5	.3	.9	.9		5.5
SW	.8	.4	.6	.6		4.4
W	2.8	1.4	2.2	1.3		3.9
NW	19.1	8.8	14.3	7.6		3.8
VAR	.0	.0	.0	.0		.0
CALM	1.8	.4	.7	.6		3.2
TOT OBS	1346	509	845	476	3176	3.6
TOT PCT	42.4	16.0	26.6	15.0	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.3	.1	.3	1.1	3.0	1.0	.3	.2	.0	*	10.9	
NE	*	*	*	.1	.2	.2	.0	.0	.0	*	3.1	
E	.0	.0	.0	.2	.4	*	.0	*	.0	.0	1.6	
SE	*	.0	*	.2	.6	.2	.1	.0	*	*	1.7	
S	.0	.0	.1	.2	.8	.1	.1	.0	.0	*	1.3	
SW	.0	*	.1	.2	.5	.2	.1	.0	*	.0	1.4	
W	*	*	.1	.6	1.0	.5	.3	*	.1	.0	5.1	
NW	.5	.2	.7	3.8	6.9	2.9	1.2	.2	.2	.2	33.0	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.2	.0	.0	.1	.4	.2	.0	*	*	.0	2.6	
TOT OBS	33	9	43	207	438	161	63	16	11	10	2185	3176
TOT PCT	1.0	.3	1.4	6.5	13.8	5.1	2.0	.5	.3	.3	68.8	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM) * OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >50YD	* OR >0
* OR >6500	.5	.7	.7	.7	.7	.7	.7	.7
* OR >5000	1.0	1.2	1.2	1.2	1.2	1.2	1.2	1.2
* OR >3500	2.5	3.0	3.1	3.1	3.1	3.1	3.1	3.1
* OR >2000	6.8	7.9	8.2	8.2	8.2	8.2	8.2	8.2
* OR >1000	18.0	21.5	22.0	22.0	22.0	22.0	22.0	22.0
* OR >600	23.2	27.8	28.5	28.5	28.5	28.5	28.5	28.5
* OR >300	23.9	29.2	29.9	29.9	29.9	29.9	29.9	29.9
* OR >150	24.1	29.4	30.1	30.1	30.1	30.1	30.1	30.1
* OR > 0	24.2	29.8	30.7	30.7	30.8	30.8	31.0	31.2
TOTAL	773	949	979	980	981	982	990	995

TOTAL NUMBER OF OBS: 3189

PCT FREQ NH <5/8: 68.8

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
29.4	10.8	10.9	9.9	7.1	5.9	7.0	7.5	10.8	.8	3353

NOVEMBER

PERIOD: (PRIMARY) 1948-1973
(OVER-ALL) 1861-1973

AREA 0030 BAJA
29.3N 116.9W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	.1	*	.0	.0	.0	.0	.0	.2	.4	.2	2.8	.2	4.5		.2	91.7
NE	.6	.0	.6	.0	.0	.0	.0	1.1	.7	.6	3.3	.0	3.4		.1	90.8
E	.9	1.2	1.2	.0	.0	.0	.0	3.2	2.1	.0	2.3	1.2	2.6		.9	87.7
SE	2.4	1.9	1.4	.0	.0	.0	.0	5.7	3.1	.0	3.3	.9	.9		.0	86.0
S	1.8	.0	0.5	.0	.0	.0	.0	7.3	4.7	.0	2.3	.0	2.1		.0	83.6
SW	1.0	1.2	1.5	.0	.0	.0	.0	3.6	2.4	1.2	8.3	.0	2.2		.0	82.2
W	.4	.8	.4	.0	.0	.0	.0	1.7	1.0	.5	4.6	.3	2.6		.0	89.2
NW	.5	.2	.4	.0	.0	.0	.0	1.1	.9	.1	2.8	.3	3.6		*	91.3
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.7	.0	10.4	.0	4.4		.0	84.4
TOT PCT	.5	.3	.5	.0	.0	.0	.0	1.2	1.0	.2	3.3	.2	3.6		.1	90.4
TOT OBS:	4103															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00&03	.3	.5	.5	.0	.0	.0	.0	1.2	1.1	.1	3.6	.4	4.3		.2	89.1
06&09	.3	.0	.5	.0	.0	.0	.0	.9	1.2	.4	2.9	.3	3.6		.0	90.7
12&15	.6	.3	.6	.0	.0	.0	.0	1.5	.5	.3	3.3	.2	2.8		.0	91.4
18&21	.7	.5	.3	.0	.0	.0	.0	1.4	1.1	.1	4.3	.1	3.4		.1	89.6
TOT PCT	.5	.3	.5	.0	.0	.0	.0	1.3	1.0	.2	3.6	.2	3.6		.1	90.1
TOT OBS:	4165															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	2.1	12.6	10.0	.8	*	.0		25.5	10.6	22.7	30.1	26.0	20.3	25.3	32.0	26.5	31.5
NE	.7	2.5	1.0	.1	.0	.0		4.3	8.5	2.5	5.9	3.5	4.4	5.6	7.2	4.6	5.5
E	.6	1.1	.3	*	.0	.0		2.0	7.0	1.2	1.2	1.8	1.7	2.5	1.8	2.7	2.0
SE	.4	1.4	.7	*	.0	.0		2.5	8.7	2.0	.4	2.5	1.9	2.6	2.7	3.1	2.7
S	.4	1.3	.5	.0	.0	.0		2.2	7.3	3.2	.8	2.2	2.4	1.6	1.0	2.1	1.5
SW	.5	1.5	.5	*	.0	.0		2.4	7.5	2.6	3.0	2.1	2.7	2.5	1.9	2.5	1.7
W	1.0	5.1	1.8	.1	*	.0		8.0	8.6	8.1	7.7	6.8	9.6	8.0	9.8	8.0	7.9
NW	2.4	24.4	21.0	1.7	.1	.0		49.5	11.2	55.2	45.5	51.3	52.3	48.4	41.1	45.9	44.0
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	3.6							3.6	.0	2.5	5.5	3.8	4.8	3.5	2.4	4.5	3.4
TOT OBS	532	2275	1634	132	5	0	4578		10.0	1097	127	797	188	894	206	1091	178
TOT PCT	11.6	49.7	35.7	2.9	.1	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	6.9	14.9	3.7	.1	.0		25.5	10.6	23.4	24.9	26.5	27.2
NE	2.0	1.9	.3	*	.0		4.3	8.5	2.9	3.7	5.9	4.7
E	1.2	.7	.1	*	.0		2.0	7.0	1.2	1.8	2.4	2.6
SE	1.2	1.1	.2	.0	.0		2.5	8.7	1.8	2.4	2.6	3.0
S	1.3	.8	.1	.0	.0		2.2	7.3	3.0	2.3	1.5	2.0
SW	1.2	1.1	.1	.0	.0		2.4	7.5	2.6	2.2	2.4	2.4
W	3.6	3.8	.5	.1	.0		8.0	8.6	8.1	7.3	8.4	8.0
NW	11.4	29.8	8.1	.2	.0		49.5	11.2	54.2	51.4	47.1	45.6
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	3.6						3.6	.0	2.8	4.0	3.3	4.3
TOT OBS	1477	2473	605	23	0	4578		10.0	1224	985	1100	1269
TOT PCT	32.3	54.0	13.2	.5	.0		100.0		100.0	100.0	100.0	100.0

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PERIOD: (PRIMARY) 1948-1973
(OVER-ALL) 1861-1973

AREA 0030 BAJA
29.3N 116.5W

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.1	*	*	*	.0	*	.1	.3	.0	.1	.8	
	TOT %	.1	*	*	*	.0	*	.1	.3	.0	.1	.8	
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	*	.0	.0	.0	.0	.0	*	*	.0	*	.1	
	TOT %	*	.0	.0	.0	.0	.0	*	*	.0	*	.1	
1<2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	*	*	.0	.0	.0	*	*	*	.0	*	.2	
	TOT %	*	*	.0	.0	.0	*	*	*	.0	*	.2	
2<5	PCP	*	.0	.0	*	.1	.0	*	.1	.0	.0	.2	
	NO PCP	.4	*	.1	*	.1	*	*	1.0	.0	*	1.8	
	TOT %	.5	*	.1	*	.1	*	.1	1.1	.0	*	2.0	
5<10	PCP	*	*	*	.1	*	*	.1	.2	.0	.0	.5	
	NO PCP	4.0	.7	.2	.2	.4	.4	1.4	8.2	.0	.4	16.0	
	TOT %	4.0	.7	.3	.3	.4	.5	1.5	8.4	.0	.4	16.5	
10+	PCP	.0	*	*	.1	.1	*	.1	.2	.0	.0	.6	
	NO PCP	20.6	3.4	1.7	2.2	1.7	1.9	6.4	39.4	.0	2.6	79.9	
	TOT %	20.6	3.4	1.7	2.2	1.8	1.9	6.4	39.7	.0	2.6	80.5	
	TOT OBS												4090
	TOT PCT	25.3	4.3	2.1	2.6	2.4	2.5	8.1	49.5	.0	3.3	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	*	*	*	.0	.0	.0	*	.0	.0	.2	.2	
	4-10	.1	*	.0	*	.0	*	*	.3	.0		.5	
	11-21	*	.0	.0	.0	.0	.0	*	*	.0		.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.1	*	*	*	.0	*	.1	.3	.0	.2	.8	
1/2<1	0-3	*	.0	*	*	.0	.0	.0	.0	.0	*	.1	
	4-10	.0	.0	.0	.0	.0	.0	*	*	.0		.1	
	11-21	*	.0	.0	.0	.0	.0	.0	*	.0		*	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	*	.0	*	*	.0	.0	*	.1	.0	*	.2	
1<2	0-3	*	*	.0	.0	.0	.0	.0	.0	.0	*	.1	
	4-10	*	*	.0	.0	.0	*	*	.1	.0		.2	
	11-21	*	*	.0	.0	.0	.0	.0	.0	.0		*	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.1	.1	.0	.0	.0	*	*	.1	.0	*	.3	
2<5	0-3	.1	*	.1	*	*	.0	*	*	.0	*	.3	
	4-10	.3	*	.0	*	.1	*	.0	.7	.0		1.1	
	11-21	.2	.0	.0	*	*	.0	*	.4	.0		.6	
	22+	*	.0	.0	.0	.0	*	.0	.1	.0		.1	
	TOT %	.5	*	.1	.1	.1	*	.1	1.2	.0	*	2.1	
5<10	0-3	.4	.1	.1	.1	.1	.2	.3	.6	.0	.4	2.3	
	4-10	1.6	.3	.1	.1	.2	.1	.8	3.9	.0		7.2	
	11-21	1.7	.2	.1	.1	.1	.1	.3	3.4	.0		5.9	
	22+	.1	*	.0	*	.0	.0	.1	.2	.0		.4	
	TOT %	3.9	.7	.2	.3	.4	.4	1.4	8.1	.0	.4	15.9	
10+	0-3	1.4	.5	.4	.2	.3	.2	.7	1.7	.0	2.9	8.4	
	4-10	10.4	2.1	1.0	1.2	1.1	1.3	4.1	19.0	.0		40.2	
	11-21	8.3	.8	.3	.6	.4	.4	1.5	17.3	.0		29.6	
	22+	.7	.1	*	*	.0	.0	.1	1.5	.0		2.5	
	TOT %	20.8	3.4	1.7	2.1	1.8	2.0	6.4	39.5	.0	2.9	80.7	
	TOT OBS												4372
	TOT PCT	25.5	4.3	2.0	2.5	2.3	2.5	8.0	49.3	.0	3.6	100.0	

NOVEMBER

PERIOD: (PRIMARY) 1948-1973
(OVER-ALL) 1861-1973

AREA 0030 BAJA
29.3N 116.9W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET,NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00&03	.9	.2	1.1	5.8	12.4	4.7	2.3	.6	.6	.4	29.1	70.9	908
06&09	1.0	.1	2.4	4.8	13.5	3.7	1.6	.3	.0	.6	28.0	72.0	704
12&15	.8	.3	1.4	7.0	15.2	4.6	1.8	.3	.3	.1	31.8	68.2	717
18&21	1.5	.4	.7	7.5	13.0	6.4	1.9	.7	.4	.2	32.8	67.2	954
TOT	35	9	44	209	441	163	63	16	11	11	1002	2281	3283
PCT	1.1	.3	1.3	6.4	13.4	5.0	1.9	.5	.3	.3	30.5	69.5	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00&03	.8	.1	.2	2.6	16.8	79.6	1167
06&09	.4	.2	.3	2.3	16.1	80.7	969
12&15	1.0	.3	.4	1.9	17.3	79.2	1060
18&21	1.2	.2	.3	2.0	14.4	81.9	1239
TOT	39	8	13	97	713	3565	4435
PCT	.9	.2	.3	2.2	16.1	80.4	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET,NH >4/8),BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	.8	2.6	10.7	21.2	68.1	878
06&09	1.0	3.7	10.1	19.9	70.0	683
12&15	.9	2.7	11.2	22.3	66.5	696
18&21	1.5	3.1	12.2	22.3	65.5	932
TOT	34	96	355	685	2149	3189
PCT	1.1	3.0	11.1	21.5	67.4	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
80/84	.0	.0	*	.1	.1	*	.0	.0	9	.3
75/79	.0	.1	.1	.2	.2	.4	.1	.0	36	1.1
70/74	*	.0	.2	.6	1.5	2.4	1.6	.7	225	6.9
65/69	.0	.1	.4	2.2	4.8	10.6	14.5	7.2	1288	39.7
60/64	.0	*	.3	1.6	7.1	11.8	16.8	8.7	1505	46.4
55/59	.0	*	.1	.3	.7	1.7	1.5	.9	170	5.2
50/54	.0	.0	*	.1	.1	*	*	*	8	.2
TOTAL	1	7	38	164	471	873	1119	568	3241	100.0
PCT	*	.2	1.2	5.1	14.5	26.9	34.5	17.5		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
*	*	.0	.0	.0	.0	.1	.1	.0	.0
.3	*	.0	*	*	*	.1	.5	.0	.1
2.0	.3	.1	.1	.2	.3	.7	2.8	.0	.5
9.9	1.8	1.2	1.5	1.5	1.2	2.7	18.8	.0	1.2
12.0	1.7	.8	.9	.6	.8	3.7	24.1	.0	1.8
1.3	.2	.1	.2	.1	.1	.5	2.8	.0	.1
.1	.0	.0	.0	.0	.0	*	.1	.0	.0
25.6	4.0	2.2	2.7	2.5	2.4	7.6	49.3	.0	3.7

TABLE 15

MEANS,EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00&03	84	78	73	65	60	57	51	65.7	1230
06&09	78	70	68	63	59	55	50	63.3	998
12&15	75	70	68	63	58	55	51	62.9	1116
18&21	80	75	72	66	60	57	54	65.7	1273
TOT	84	75	71	64	59	56	50	64.5	4617

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00&03	.1	7.4	16.4	27.4	35.7	13.0	77	870
06&09	.0	3.9	10.0	24.1	38.6	23.4	81	713
12&15	.0	4.6	13.0	23.8	36.2	22.5	80	769
18&21	.0	8.9	17.2	31.3	29.4	13.1	76	928
TOT	1	210	474	883	1137	575	78	3280

NOVEMBER

PERIOD: (PRIMARY) 1948-1973
(OVER-ALL) 1861-1973

TABLE 17

AREA 0030 BAJA
29.3N 116.9W

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	49 52	53 56	57 60	61 64	65 68	69 72	73 76	77 80	81 84	TOT	W FOG	WO FOG
17/19	.0	.0	.0	.0	.0	.0	.0	.1	*	3	.0	.1
14/16	.0	.0	.0	.0	.0	.0	*	.1	*	4	.0	.1
11/13	.0	.0	.0	.1	.1	*	.2	.2	.0	22	.1	.5
9/10	.0	.0	.0	.0	.1	.1	.3	.1	.0	25	*	.6
7/8	.0	.0	*	.2	.2	.8	.3	.1	.0	63	.1	1.6
6	.0	.0	.1	*	.2	.4	.3	*	.0	36	.1	.9
5	.0	.0	*	.1	.7	1.0	.3	*	.0	80	.1	2.1
4	.0	.0	*	.5	2.0	1.3	.1	*	.0	146	.1	3.8
3	.0	.0	.0	.6	2.5	1.3	.1	.0	.0	172	.2	4.3
2	.0	*	.2	1.8	4.0	1.2	.1	.0	.0	274	.4	6.9
1	.0	*	.1	2.4	4.4	1.0	.1	.0	.0	302	.2	7.7
0	.0	*	.5	5.7	6.1	.7	.1	*	.0	500	.5	12.7
-1	.0	.0	.8	5.3	4.5	.5	*	.0	.0	422	.4	10.8
-2	.0	*	1.4	7.5	3.9	.3	.0	.0	.0	499	.5	12.7
-3	.0	.1	1.5	5.5	2.0	.1	.0	.0	.0	349	.2	9.0
-4	*	.2	2.4	5.6	1.7	.1	*	.0	.0	378	.4	9.6
-5	.0	.1	1.6	3.0	.9	.2	.0	.0	.0	218	.1	5.6
-6	.0	.1	1.1	1.5	.6	.0	.0	.0	.0	124	.1	3.2
-7/-8	.0	.1	.9	1.4	.6	.1	.0	.0	.0	118	.1	3.1
-9/-10	.0	.1	.4	.2	.1	.0	.0	.0	.0	29	.0	.8
-11/-13	.1	.1	.1	.1	.1	*	.0	.0	.0	15	*	.4
-14/-16	.0	*	.0	.1	.0	.0	.0	.0	.0	3	.0	.1
TOTAL	3	29	415	1578	1314	342	73	26	2	3782	130	3652
PCT	.1	.8	11.0	41.7	34.7	9.0	1.9	.7	.1	100.0	3.4	96.6

PERIOD: (OVER-ALL) 1963-1979

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.4	1.4	.1	.0	.0	.0	2.0
1-2	.5	5.0	2.6	.0	.0	.0	8.0
3-4	.2	2.9	4.8	.1	.0	.0	8.0
5-6	.0	.4	3.6	.4	.0	.0	4.4
7	.0	.2	1.0	.4	.0	.0	1.7
8-9	.0	.1	.3	.2	.0	.0	.5
10-11	.0	.0	.0	.1	.0	.0	.1
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.1	.0	.0	.0	.1
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.1	10.0	12.4	1.3	.0	.0	24.7

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	*	.0	.0	.0	.0	.1
1-2	.2	1.7	.1	.0	.0	.0	1.9
3-4	.2	.6	.5	.0	.0	.0	1.3
5-6	.0	.3	.4	.1	.0	.0	.8
7	.0	.0	.0	*	.0	.0	*
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.5	2.3	1.0	.1	.0	.0	4.1

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.3	.0	.0	.0	.0	.3
1-2	.1	1.0	.2	.0	.0	.0	1.4
3-4	.1	.4	.2	.0	.0	.0	.7
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.1	1.7	.9	.0	.0	.0	2.9

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	.2	.0	.0	.0	.0	.4
1-2	.1	.8	.0	.0	.0	.0	.9
3-4	*	.4	1.4	.1	.0	.0	1.9
5-6	.0	.0	.4	.0	.0	.0	.4
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.1	.0	.0	.1
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.4	1.4	1.8	.2	.0	.0	3.8

PERIOD: (OVER-ALL) 1963-1973 NOVEMBER AREA 0030 BAJA

TABLE 18 (CONT) 29.3N 116.5W

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

S

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.3	.0	.0	.0	.0	.4
1-2	.1	1.1	.2	.0	.0	.0	1.4
3-4	.0	.3	.7	.0	.0	.0	.9
5-6	.0	.0	.3	.0	.0	.0	.3
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	1.7	1.2	.0	.0	.0	3.1

SW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.6	.0	.0	.0	.0	.6
1-2	.0	.8	.2	.0	.0	.0	.9
3-4	.0	*	.4	.1	.0	.0	.6
5-6	.0	.0	.2	.0	.0	.0	.2
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.1	.0	.0	.0	.0	.1
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	1.5	.8	.1	.0	.0	2.4

W

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.9	.0	.0	.0	.0	1.0
1-2	.1	2.3	.3	.0	.0	.0	2.7
3-4	.0	.9	.5	.0	.0	.0	1.4
5-6	.0	.1	.8	.0	.0	.0	.8
7	.0	.1	.2	.1	.0	.0	.4
8-9	.0	.0	.2	.1	.0	.0	.2
10-11	.0	.0	.0	.1	.0	.0	.1
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	4.2	2.0	.3	.0	.0	6.7

NW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.4	1.7	.2	.0	.0	.0	2.2	
1-2	.6	10.5	4.5	.0	.0	.0	15.6	
3-4	.0	6.9	10.2	.6	.0	.0	17.7	
5-6	.0	1.1	6.3	.8	.0	.0	8.1	
7	.1	.6	3.1	.3	.0	.0	4.1	
8-9	.0	.1	.5	.3	.0	.0	.9	
10-11	.0	.0	.0	.2	.0	.0	.2	
12	.0	.1	.1	.1	.0	.0	.2	
13-16	.0	.0	*	.1	.0	.0	.1	
17-19	.0	.0	.0	.0	.1	.0	.1	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	1.0	20.9	25.0	2.3	.1	.0	49.3	96.8

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	5.2	5.5	.2	.0	.0	.0	11.0	
1-2	1.7	23.2	8.1	.0	.0	.0	33.0	
3-4	.6	12.3	18.6	.9	.0	.0	32.3	
5-6	.0	1.8	11.9	1.2	.0	.0	14.9	
7	.1	.9	4.4	.8	.0	.0	6.1	
8-9	.0	.2	1.0	.6	.0	.0	1.8	
10-11	.0	.0	.0	.5	.0	.0	.5	
12	.0	.1	.1	.1	.0	.0	.2	
13-16	.0	.0	.1	.1	.0	.0	.2	
17-19	.0	.0	.0	.0	.1	.0	.1	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	7.6	43.9	44.3	4.1	.1	.0	100.0	1238

PERIOD: (OVER-ALL) 1949-1973 TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	4.8	16.0	16.0	7.0	2.4	.5	.2	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1308	3
6-7	.2	2.2	8.0	8.2	3.6	1.6	.2	.1	.1	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	672	5
8-9	.0	.8	3.0	3.1	2.2	1.7	.5	.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	325	6
10-11	.0	.9	1.0	1.3	.9	.8	.4	.1	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	156	6
12-13	.0	.0	.5	.4	.3	.1	.1	.1	.1	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	48	6
>13	.0	.0	.0	.2	.1	*	.2	*	.1	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	20	9
INDET	4.5	1.2	1.5	1.3	.3	.1	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	247	2
TOTAL	263	586	833	595	273	135	46	22	18	5	1	0	0	0	0	0	0	0	0	2777	4
PCT	9.5	21.1	30.0	21.4	9.8	4.9	1.7	.8	.6	.2	*	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

DECEMBER

PERIOD: (PRIMARY) 1950-1973
(OVER-ALL) 1860-1973

AREA 0030 BAJA
29.4N 116.5W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	*	.3	.3	.0	.0	.0	.0	.6	.3	.1	3.0	.3	4.0		.0	91.8
NE	.8	.1	.6	.0	.0	.0	.0	1.4	.6	.0	1.1	.0	3.4		.0	93.6
E	1.3	.0	2.3	.0	.0	.0	.0	3.1	3.8	.0	.8	.0	2.0		.0	90.3
SE	1.9	1.7	5.8	.0	.0	.0	.0	9.1	3.0	.0	3.6	.0	1.7		.0	82.6
S	4.5	.5	3.5	.0	.0	.0	.0	7.8	3.3	.0	1.6	.0	2.1		.0	85.2
SW	2.5	4.9	2.2	.0	.0	.0	.0	9.1	2.5	.3	2.7	.0	1.4		.0	84.1
W	1.5	2.6	2.1	.0	.0	.0	.0	5.3	3.7	.3	2.8	.5	2.5		.0	84.9
NW	.3	.2	.3	.0	.0	.0	.0	.7	1.2	.1	3.2	.4	3.4		.1	90.9
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	.0
CALM	.7	.0	1.3	.0	.0	.0	.0	2.0	.7	.0	9.2	2.6	4.6		.7	80.4
TOT PCT	.6	.5	.8	.0	.0	.0	.0	1.8	1.3	.1	3.1	.4	3.4		.1	89.9
TOT OBS:	3690															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00&03	.3	.4	.7	.0	.0	.0	.0	1.4	1.5	.0	2.9	.1	4.9		.1	89.2
06&09	.4	.5	1.0	.0	.0	.0	.0	1.7	1.1	.4	2.2	.5	3.3		.0	90.9
12&15	1.0	.6	1.4	.0	.0	.0	.0	2.7	1.3	.1	2.2	.3	2.8		.0	90.6
18&21	.9	.6	.5	.0	.0	.0	.0	1.9	1.2	.0	4.9	.5	2.7		.1	88.6
TOT PCT	.7	.5	.9	.0	.0	.0	.0	1.9	1.3	.1	3.2	.4	3.4		.1	89.7
TOT OBS:	3743															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	1.9	13.1	12.6	1.2	.1	.0		29.0	11.5	27.1	22.0	30.2	22.9	28.7	37.1	30.8	26.6
NE	.5	3.4	2.0	.4	*	.0		6.2	10.3	4.2	9.3	6.1	7.5	6.8	7.2	7.0	7.0
E	.5	1.4	.8	.1	.0	.0		2.7	9.2	1.9	1.9	2.6	2.6	2.5	3.7	3.7	3.2
SE	.4	1.5	.8	.1	.0	.0		2.8	9.2	1.8	9.3	2.2	2.5	3.2	3.1	2.7	6.6
S	.6	1.7	.8	.1	.0	.0		3.1	8.5	3.7	6.3	2.4	4.1	2.4	2.5	3.3	3.8
SW	.5	1.5	.8	.1	.0	.0		2.7	9.5	2.6	3.9	2.2	3.3	2.7	3.5	2.4	3.7
W	.5	4.1	2.3	.2	.0	.0		7.2	9.9	8.0	4.6	6.6	7.4	7.4	4.4	7.4	6.9
NW	2.1	18.8	18.1	2.3	.2	.0		41.6	11.9	47.1	32.6	49.5	42.0	40.8	34.2	38.3	37.3
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	4.6							4.6	.0	3.5	10.2	4.2	7.8	5.4	4.3	4.4	2.9
TOT OBS	475	1877	1584	185	13	0	4134		10.7	966	108	739	153	830	163	1004	171
TOT PCT	11.5	45.4	38.3	4.5	.3	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	6.2	17.6	4.9	.2	.0		29.0	11.5	26.6	29.0	30.1	30.1
NE	2.2	3.0	.9	.1	.0		6.2	10.3	4.7	6.3	6.9	7.0
E	1.1	1.4	.3	*	.0		2.7	9.2	1.9	2.6	2.7	3.6
SE	1.2	1.2	.3	*	.0		2.8	9.2	2.6	2.2	3.1	3.3
S	1.5	1.3	.3	.0	.0		3.1	8.5	3.9	2.7	3.4	3.4
SW	1.1	1.3	.2	*	.0		2.7	9.3	2.7	2.4	3.8	3.9
W	2.5	3.9	.7	.1	.0		7.2	9.9	7.7	6.7	6.9	7.3
NW	8.6	24.7	7.5	.7	.0		41.6	11.9	43.7	43.2	39.7	38.2
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	4.6						4.6	.0	4.2	4.8	3.2	4.2
TOT OBS	1204	2253	625	52	0	4134		10.7	1074	892	993	1173
TOT PCT	29.1	54.5	15.1	1.3	.0		100.0		100.0	100.0	100.0	100.0

DECEMBER

PERIOD: (PRIMARY) 1950-1973
(OVER-ALL) 1860-1973

AREA 0030 BAJA
29.4N 116.5W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	4.2	8.1	42.5	40.1	4.7	.4	.0	10.9	100.0	1074
06&09	4.8	4.8	43.5	40.8	5.9	.1	.0	10.7	100.0	892
12&15	3.2	6.5	47.1	36.9	5.9	.3	.0	10.3	100.0	993
18&21	4.2	7.7	46.6	36.0	5.1	.4	.0	10.7	100.0	1175
TOT	189	286	1877	1584	183	13	0	10.7		4134
PCT	4.6	6.9	45.4	38.3	4.5	.3	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	15.1	4.9	6.5	3.6		3.1
NE	4.3	.5	.9	.5		2.0
E	1.3	.2	.4	.7		3.6
SE	.5	.4	.6	.6		4.9
S	.8	.3	.7	.9		4.9
SW	.4	.3	.7	.9		5.6
W	1.6	.9	2.8	1.9		5.1
NW	17.1	7.0	12.3	8.2		3.8
VAR	.0	.0	.0	.0		.0
CALM	2.0	.5	1.0	.7		3.3
TOT OBS	1283	444	773	472	2972	3.6
TOT PCT	43.2	14.9	26.0	15.9	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.4	*	.3	1.7	2.3	1.4	.6	.2	.1	.1	22.9	
NE	.1	.0	*	.1	.3	.2	.1	*	*	.1	5.2	
E	*	.0	.1	.1	.4	.1	.1	*	*	.0	1.8	
SE	*	.0	.1	.2	.4	.2	*	.0	*	.0	1.1	
S	.1	.0	.1	.3	.3	.2	.1	.0	.0	.0	1.6	
SW	*	*	.1	.3	.3	.2	.1	*	.0	*	1.1	
W	.2	.0	.1	.6	1.4	1.1	.3	.1	*	.1	5.5	
NW	.5	.1	.6	2.9	4.9	3.2	1.2	.2	.1	.1	28.7	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.2	.0	.1	.2	.2	.2	.1	.0	.0	.1	3.1	
TOT OBS	43	6	41	192	320	203	79	18	9	15	2080	2972
TOT PCT	1.4	.2	1.4	6.5	10.8	6.8	2.5	.6	.3	.5	69.0	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM) * OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >50YD	* OR >0
* OR >6500	.8	.8	.8	.8	.8	.8	.8	.8
* OR >5000	1.3	1.4	1.4	1.4	1.4	1.4	1.4	1.4
* OR >3500	3.5	3.9	4.0	4.0	4.0	4.0	4.0	4.0
* OR >2000	9.1	10.7	10.8	10.8	10.8	10.8	10.8	10.8
* OR >1000	18.2	21.1	21.4	21.4	21.4	21.4	21.5	21.5
* OR >600	23.0	27.1	27.8	27.8	27.8	27.8	27.8	27.8
* OR >300	23.8	28.4	29.1	29.2	29.2	29.2	29.2	29.2
* OR >150	23.9	28.5	29.3	29.4	29.4	29.4	29.4	29.4
* OR > 0	24.3	29.1	29.9	30.0	30.2	30.2	30.5	30.8
TOTAL	730	875	900	904	908	909	919	928

TOTAL NUMBER OF OBS: 3009

PCT FREQ NH <5/8: 69.2

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
30.8	10.3	11.1	9.2	7.0	5.3	7.4	7.8	9.9	1.2	3148

DECEMBER

PERIOD: (PRIMARY) 1950-1973
(OVER-ALL) 1860-1973

AREA 0030 BAJA
29.4N 116.5W

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.2	*	.0	.0	.0	.0	.1	.2	.0	.2	.7	
	TOT %	.2	*	.0	.0	.0	.0	.1	.2	.0	.2	.7	
1/2<1	PCP	.0	.0	.0	*	.0	.0	.0	*	.0	.0	.1	
	NO PCP	.1	.0	.0	.0	.0	.0	*	.1	.0	.0	.2	
	TOT %	.1	.0	.0	*	.0	.0	*	.1	.0	.0	.2	
1<2	PCP	.0	.0	.0	*	*	.0	.0	.0	.0	.0	.1	
	NO PCP	.0	.0	*	.0	.0	.0	.0	.1	.0	*	.1	
	TOT %	.0	.0	*	*	*	.0	.0	.1	.0	*	.2	
2<5	PCP	.0	.0	*	*	*	*	*	.0	.0	.1	.2	
	NO PCP	.7	.1	*	.1	*	.1	.1	.7	.0	.2	1.9	
	TOT %	.7	.1	.1	.1	.1	.1	.1	.7	.0	.2	2.1	
5<10	PCP	.1	.1	*	*	.1	.1	.2	.1	.0	.0	.6	
	NO PCP	9.4	.3	.2	.3	.5	.3	.8	4.5	.0	.5	10.8	
	TOT %	9.5	.3	.3	.4	.6	.3	1.0	4.6	.0	.5	11.4	
10+	PCP	.1	*	*	.1	.1	.2	.2	.2	.0	*	.9	
	NO PCP	23.2	5.3	2.3	1.8	2.1	1.9	6.0	36.6	.0	3.2	84.5	
	TOT %	25.3	5.4	2.3	1.9	2.2	2.0	6.2	36.8	.0	3.2	85.4	
	TOT OBS												3681
	TOT PCT	29.7	5.8	2.7	2.5	2.9	2.4	7.4	42.5	.0	4.1	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.1	*	.0	.0	.0	.0	.0	*	.0	.2	.3	
	4-10	.1	*	*	.0	.0	.0	.1	.2	.0		.4	
	11-21	*	*	.0	.0	.0	.0	*	.1	.0		.2	
	22+	.0	.0	.0	.0	.0	*	.0	.0	.0		*	
	TOT %	.3	.1	*	.0	.0	*	.1	.3	.0	.2	.9	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	*	.0	.0	*	
	4-10	.1	.0	.0	.0	.0	.0	*	.1	.0		.2	
	11-21	.0	.0	.0	*	.0	.0	.0	.1	.0		.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.1	.0	.0	*	.0	.0	*	.1	.0	.0	.3	
1<2	0-3	*	.0	*	.0	*	*	*	*	.0	*	.1	
	4-10	*	.0	.0	.0	*	*	.0	.1	.0		.2	
	11-21	.0	.0	.0	*	.0	.0	.0	*	.0		.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	*	.0	*	*	.1	*	*	.1	.0	*	.3	
2<5	0-3	*	*	*	.1	*	.0	.0	.1	.0	.2	.5	
	4-10	.4	.1	*	*	*	.1	.1	.4	.0		1.0	
	11-21	.2	.0	*	*	*	*	*	.2	.0		.6	
	22+	.0	.0	.0	*	.0	.0	.0	.0	.0		*	
	TOT %	.7	.1	.1	.1	.1	.1	.1	.7	.0	.2	2.1	
5<10	0-3	.2	*	.1	.1	.1	.1	.1	.3	.0	.4	1.4	
	4-10	1.5	.2	.1	.3	.2	.1	.5	2.0	.0		4.9	
	11-21	1.5	.1	.1	.1	.2	.1	.4	1.7	.0		4.2	
	22+	.1	.0	.0	*	*	*	.1	.5	.0		.7	
	TOT %	3.4	.3	.3	.5	.6	.4	1.0	4.4	.0	.4	11.3	
10+	0-3	1.5	.4	.4	.2	.4	.3	.4	1.7	.0	3.6	8.9	
	4-10	11.1	3.0	1.3	1.2	1.4	1.0	3.6	16.4	.0		39.0	
	11-21	11.0	1.9	.7	.6	.8	.7	1.9	15.9	.0		33.1	
	22+	1.3	.4	.1	.1	.1	.1	.2	2.1	.0		4.1	
	TOT %	24.8	5.7	2.4	2.1	2.3	2.1	6.0	36.1	.0	3.6	85.1	
	TOT OBS												3939
	TOT PCT	29.2	6.1	2.8	2.7	3.0	2.6	7.2	41.7	.0	4.5	100.0	

DECEMBER

PERIOD: (PRIMARY) 1950-1973
(OVER-ALL) 1860-1973

AREA 0030 BAJA
29.4N 116.5W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET,NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00&03	1.3	.2	1.8	5.9	9.9	6.8	3.7	.5	.2	.6	31.1	68.9	827
06&09	1.3	.3	1.0	4.3	8.0	6.5	1.8	1.0	.0	1.2	25.4	74.6	677
12&15	.9	.1	1.2	7.4	11.5	6.9	1.7	.3	.3	.1	30.4	69.6	693
18&21	1.9	.1	1.3	7.1	11.9	6.6	2.6	.6	.6	.1	32.8	67.2	890
TOT	43	6	42	192	322	207	78	18	9	15	932	2155	3087
PCT	1.4	.2	1.4	6.2	10.4	6.7	2.5	.6	.3	.5	30.2	69.8	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00&03	.7	.3	.5	1.9	10.6	86.0	1017
06&09	.7	.0	.5	2.2	10.8	85.9	880
12&15	.8	.2	.1	1.7	14.4	82.8	954
18&21	1.3	.4	.3	3.1	9.9	85.0	1143
TOT	36	10	13	90	453	3392	3994
PCT	.9	.3	.3	2.3	11.3	84.9	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET,NH >4/8),BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	1.4	3.6	10.8	21.7	67.6	808
06&09	1.4	2.8	8.1	18.8	73.1	654
12&15	.9	2.2	10.7	20.7	68.6	681
18&21	2.0	3.8	12.6	22.7	64.7	866
TOT	43	95	322	636	2051	3009
PCT	1.4	3.2	10.7	21.1	68.2	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
80/84	.0	.0	.0	*	*	*	.0	.0	3	.1
75/79	.0	.0	.0	*	.1	.1	.0	.0	6	.2
70/74	.0	.0	.1	.5	.7	.6	.3	.1	69	2.3
65/69	.0	.1	.4	1.1	2.0	4.2	5.3	2.1	461	15.1
60/64	*	.1	1.0	3.5	9.3	16.0	19.8	7.4	1747	57.2
55/59	.0	*	.6	1.7	4.3	6.8	7.1	3.2	726	23.8
50/54	.0	.0	*	.1	.3	.4	.2	.2	38	1.2
45/49	.0	.0	.0	.1	*	.0	.0	*	4	.1
TOTAL	1	8	65	215	509	860	999	397	3054	100.0
PCT	*	.3	2.1	7.0	16.7	28.2	32.7	13.0		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.0	.0	.0	.0	.0	.1	.0	.0
.1	.0	.0	.0	.0	.0	.0	.1	.0	.0
.7	.3	.1	*	*	.0	.1	.9	.0	.1
4.4	1.3	.7	.6	.6	.4	1.0	5.6	.0	.6
17.5	3.1	1.3	1.1	1.5	1.4	4.1	23.0	.0	2.1
7.1	1.2	.5	.5	.5	.4	1.7	10.7	.0	1.1
.3	.1	.1	*	*	.1	.1	.5	.0	.0
.0	*	.0	.0	.0	.0	*	*	.0	*
30.0	6.0	2.8	2.2	2.7	2.2	7.1	43.0	.0	4.0

TABLE 15

MEANS,EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00&03	81	73	70	63	57	54	50	62.9	1074
06&09	70	68	66	61	56	53	45	60.7	905
12&15	74	68	65	60	55	54	47	60.4	1005
18&21	82	73	70	63	57	55	49	63.0	1184
TOT	82	72	68	62	56	54	45	61.8	4168

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00&03	.0	10.2	18.8	31.8	28.0	11.2	76	803
06&09	.0	6.4	16.2	25.9	34.8	16.7	79	687
12&15	.0	7.1	15.2	27.0	36.1	14.5	78	736
18&21	.1	12.9	16.5	27.3	32.4	10.8	75	868
TOT	1	290	517	869	1011	406	77	3094

DECEMBER

PERIOD: (PRIMARY) 1950-1973
(OVER-ALL) 1860-1973

AREA 0030 BAJA
29.4N 116.5W

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	45 48	49 52	53 56	57 60	61 64	65 68	69 72	73 76	77 80	81 84	TOT	W FOG	WO FOG
17/19	.0	.0	.0	.0	.0	.0	.0	.0	*	.0	1	.0	*
14/16	.0	.0	.0	.0	.1	*	*	*	.0	.1	7	.0	.2
11/13	.0	.0	.0	.0	.1	.1	.1	.2	.1	.0	15	*	.4
9/10	.0	.0	.0	.1	*	.1	.1	.1	*	.0	17	*	.5
7/8	.0	.0	*	.1	.3	.2	.4	.1	.0	.0	41	.0	1.2
6	.0	.0	.0	*	.2	.4	.3	.1	*	.0	35	*	1.0
5	.0	.0	.0	.1	.4	.8	.4	.1	*	.0	62	.1	1.7
4	.0	.0	*	.1	1.2	1.2	.6	.0	.0	.0	109	.1	3.1
3	.0	.0	.0	.1	1.0	1.5	.3	.0	.0	.0	101	.1	2.8
2	.0	*	.0	.7	2.9	1.8	.4	*	.0	.0	203	.1	5.8
1	.0	.0	.1	.6	4.0	1.7	.1	.0	.0	.0	227	.2	6.3
0	.0	.0	.2	2.2	7.7	1.9	.2	.0	.0	.0	426	.5	11.8
-1	.0	.0	.1	3.7	6.4	1.5	.1	*	*	.0	411	.4	11.5
-2	.0	.0	.4	5.7	7.0	1.2	.1	.0	.0	.0	498	.3	14.0
-3	.0	.0	.4	4.8	4.6	.7	.1	.0	.0	.0	371	.2	10.5
-4	*	.0	1.0	4.6	3.3	.6	.1	.0	.0	.0	332	.3	9.3
-5	.0	*	.7	3.1	2.4	.4	*	.0	.0	.0	228	.2	6.4
-6	.0	.0	.8	2.6	1.2	.1	*	.0	.0	.0	161	.2	4.5
-7/-8	.0	*	.7	2.0	1.2	.2	*	.0	.0	.0	144	.1	4.0
-9/-10	.0	.1	.3	.5	.3	*	*	.0	.0	.0	45	*	1.3
-11/-13	*	.1	.2	.3	*	.0	.0	.0	.0	.0	21	.0	.6
-14/-16	.0	.1	.1	.1	.1	.0	.0	.0	.0	.0	10	.0	.3
-17/-19	.0	.0	*	*	.0	.0	.0	.0	.0	.0	2	.0	.1
TOTAL	2	11	177	1085	1538	505	119	21	7	2	3467	101	3366
PCT	.1	.3	5.1	31.3	44.4	14.6	3.4	.6	.2	.1	100.0	2.9	97.1

PERIOD: (OVER-ALL) 1963-1973

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.4	1.7	.0	.0	.0	.0	2.1
1-2	.2	6.1	3.3	.0	.0	.0	9.6
3-4	.1	3.0	5.6	.3	.0	.0	9.0
5-6	.1	1.0	4.2	.4	.0	.0	5.6
7	.0	.2	2.1	.3	.0	.0	2.6
8-9	.0	.2	.5	.4	.0	.0	1.1
10-11	.0	.0	.1	.1	.0	.0	.3
12	.0	.0	.1	.0	.0	.0	.1
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.7	12.1	15.9	1.6	.0	.0	30.3

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	.5	.0	.0	.0	.0	.6
1-2	*	1.9	.4	.0	.0	.0	2.3
3-4	.0	.7	1.1	.0	.0	.0	1.7
5-6	.0	.2	.6	.2	.1	.0	1.1
7	.0	.1	.1	.0	.0	.0	.2
8-9	.0	*	.3	.0	.0	.0	.3
10-11	.0	.0	.0	.1	.0	.0	.1
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	3.4	2.5	.3	.1	.0	6.4

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.3	.0	.0	.0	.0	.4
1-2	.0	.5	.1	.0	.0	.0	.6
3-4	.1	.1	.4	.0	.0	.0	.6
5-6	.0	.0	.2	.0	.0	.0	.2
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.1	.0	.0	.0	.0	.1
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	1.0	.7	.0	.0	.0	1.9

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.2	.0	.0	.0	.0	.2
1-2	.0	.2	*	.0	.0	.0	.2
3-4	.0	.0	*	.0	.0	.0	*
5-6	.0	.0	.2	.0	.0	.0	.2
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.4	.2	.0	.0	.0	.7

PERIOD: (OVER-ALL) 1963-1979

DECEMBER

AREA 0030 BAJA
29.4N 116.5W

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

S

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	.2	.0	.0	.0	.0	.4
1-2	.1	.5	.2	.0	.0	.0	.8
3-4	.0	.3	.1	.0	.0	.0	.4
5-6	.0	.0	.2	.0	.0	.0	.2
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.4	1.0	.5	.0	.0	.0	1.8

SW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	.4	.0	.0	.0	.0	.5
1-2	.1	.6	.2	.0	.0	.0	.9
3-4	.0	.2	.5	.0	.0	.0	.7
5-6	.0	*	.3	.0	.0	.0	.3
7	.0	.0	.1	.1	.0	.0	.2
8-9	.0	.0	*	.1	.0	.0	.1
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	1.2	1.1	.2	.0	.0	2.7

W

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	.7	.0	.0	.0	.0	.9
1-2	.0	2.1	.9	.0	.0	.0	3.0
3-4	.0	1.0	1.0	.1	.0	.0	2.0
5-6	.0	.3	.9	.1	.0	.0	1.2
7	.0	.2	.3	.2	.0	.0	.8
8-9	.0	.0	.2	.0	.0	.0	.2
10-11	.0	.0	.1	.0	.0	.0	.1
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.1	.0	.0	.1
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	4.4	3.3	.3	.0	.0	8.3

NW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.8	1.8	.1	.0	.0	.0	2.7	
1-2	.6	9.7	4.0	.0	.0	.0	14.2	
3-4	.0	5.3	7.0	.5	.0	.0	12.7	
5-6	.0	1.2	5.8	1.1	.0	.0	8.1	
7	.0	.1	2.0	.9	.0	.0	3.0	
8-9	.0	.0	.8	1.3	.5	.0	2.6	
10-11	.0	.0	.1	*	.0	.0	.1	
12	.0	.0	.2	.2	.0	.0	.3	
13-16	.0	.0	.0	.1	.1	.0	.2	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	1.4	18.1	19.9	4.0	.6	.0	43.9	96.0

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	6.0	5.7	.1	.0	.0	.0	11.7	
1-2	1.3	21.8	9.0	.0	.0	.0	32.1	
3-4	.2	10.6	15.6	.9	.0	.0	27.2	
5-6	.1	2.7	12.1	1.7	.1	.0	16.7	
7	.0	.6	4.6	1.6	.0	.0	6.7	
8-9	.0	.2	1.9	1.7	.5	.0	4.4	
10-11	.0	.0	.3	.2	.0	.0	.6	
12	.0	.0	.2	.2	.0	.0	.4	
13-16	.0	.0	.0	.2	.1	.0	.2	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	7.5	41.6	43.8	6.4	.6	.0	100.0	1260

PERIOD: (OVER-ALL) 1949-1979

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	4.4	14.6	17.3	7.5	2.6	.9	.3	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1272	3
6-7	.2	1.9	7.6	7.1	3.4	1.8	.7	.3	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	614	5
8-9	*	.6	2.1	2.7	2.3	2.1	.9	.5	.3	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	308	6
10-11	.0	.3	.5	.7	.9	.8	.5	.2	.5	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	117	7
12-13	.0	.0	.5	.5	.5	.3	.4	.1	.5	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	75	8
>13	.0	.0	.0	.4	.4	.3	.2	.1	.1	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	40	8
INDET	4.2	1.1	1.4	1.1	.6	.3	.1	.0	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	236	2
TOTAL	237	493	779	532	285	175	78	33	44	5	1	0	0	0	0	0	0	0	0	2662	4
PCT	8.9	18.5	29.3	20.0	10.7	6.6	2.9	1.2	1.7	.2	*	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

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PERIOD: (PRIMARY) 1948-1974
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AREA 0030 BAJA
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TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA				
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	.2	.1	.3	.0	.0	.0	*	.6	.3	.1	3.0	.2	4.2		.1	91.5
NE	.5	.2	.7	.0	.0	.0	.0	1.4	.2	.3	2.6	.1	4.9		*	90.4
E	.8	.1	1.1	.0	.0	.0	.0	1.9	1.9	.0	3.4	.5	5.3		.1	87.0
SE	2.0	.5	1.6	.0	.0	.0	.0	3.9	1.5	.1	4.4	.2	4.3		.0	85.6
S	1.4	.5	1.9	.0	.0	.0	.0	3.8	3.0	.1	4.2	.1	3.6		.0	85.3
SW	1.0	1.0	.9	.0	.0	.0	.1	3.1	1.8	.8	4.1	.2	4.2		.1	85.8
W	.5	.5	.9	.0	.0	.0	.0	1.8	1.2	.2	3.0	.2	4.4		*	89.1
NW	.2	.2	.3	.0	.0	.0	*	.7	.5	.1	2.9	.2	4.6		*	91.1
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	.0
CALM	.3	.1	.4	.0	.0	.0	.0	.8	.3	.1	8.1	.5	8.1		.1	82.2
TOT PCT	.3	.2	.5	.0	.0	.0	*	1.0	.6	.1	3.1	.2	4.5		*	90.4
TOT OBS: 52222																

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA				
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00&03	.3	.2	.3	.0	.0	.0	*	.7	.5	.1	2.5	.2	5.6		*	90.3
06&09	.3	.2	.5	.0	.0	.0	.0	1.0	.6	.2	2.6	.2	4.0		*	91.5
12&15	.5	.2	.7	.0	.0	.0	.0	1.3	.8	.3	3.3	.2	3.8		*	90.3
18&21	.3	.2	.4	.0	.0	.0	*	.9	.7	*	4.0	.2	4.5		*	89.6
TOT PCT	.3	.2	.5	.0	.0	.0	*	1.0	.6	.1	3.2	.2	4.5		*	90.4
TOT OBS: 52745																

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	1.1	8.5	9.3	.9	*	.0		19.8	11.9	17.2	20.6	19.8	17.9	20.3	22.3	21.5	20.8
NE	.3	1.3	.6	.1	*	.0		2.3	8.7	1.4	2.4	2.1	2.4	2.6	3.4	2.7	2.5
E	.2	.6	.2	*	*	.0		1.1	7.6	.7	.7	1.1	1.1	1.3	1.1	1.5	1.3
SE	.3	.8	.3	*	.0	.0		1.4	7.0	1.1	2.2	1.1	1.1	1.4	1.5	1.7	2.1
S	.4	1.2	.4	*	*	.0		2.1	7.0	1.9	2.6	2.0	2.5	2.0	1.9	2.1	2.4
SW	.5	1.5	.4	*	*	.0		2.4	7.3	2.3	2.5	2.3	2.9	2.4	3.0	2.2	3.3
W	1.0	5.8	2.4	.2	*	.0		9.3	8.9	9.7	8.7	9.1	10.2	9.4	8.5	8.8	10.0
NW	2.1	24.4	29.4	2.7	.1	.0		58.6	12.1	63.8	57.4	59.6	59.2	56.6	55.2	55.9	55.1
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	3.1							3.1	.0	2.0	3.1	3.0	2.9	4.0	3.0	3.6	2.5
TOT OBS							57417		11.0	13403	1548	10536	2045	11229	2200	14147	2309
TOT PCT	8.9	44.2	42.9	3.9	.1	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	3.9	12.1	3.7	.1	*		19.8	11.9	17.5	19.4	20.6	21.4
NE	.9	1.1	.2	*	.0		2.3	8.7	1.5	2.1	2.7	2.7
E	.6	.5	.1	*	.0		1.1	7.6	.7	1.1	1.3	1.4
SE	.7	.6	.1	*	.0		1.4	7.0	1.2	1.1	1.4	1.8
S	1.1	.8	.1	*	.0		2.1	7.0	2.0	2.1	2.0	2.2
SW	1.3	1.0	.1	*	.0		2.4	7.3	2.3	2.4	2.5	2.4
W	3.6	5.0	.7	*	.0		9.3	8.9	9.6	9.2	9.3	9.0
NW	9.7	36.8	11.6	.5	*		58.6	12.1	63.1	59.5	56.3	55.8
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	3.1						3.1	.0	2.1	2.9	3.8	3.5
TOT OBS						57417		11.0	14951	12581	13429	16456
TOT PCT	24.9	57.8	16.6	.7	*		100.0		100.0	100.0	100.0	100.0

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	2.1	5.1	41.6	46.4	4.6	.2	.0	11.6	100.0	14951
06&09	2.9	4.8	42.8	44.9	4.4	.1	.0	11.4	100.0	12581
12&15	3.8	6.1	45.5	40.9	3.5	.1	.0	10.7	100.0	13429
18&21	3.5	7.1	46.3	39.7	3.4	.1	.0	10.5	100.0	16456
TOT								11.0		57417
PCT	3.1	5.8	44.2	42.9	3.9	.1	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	7.9	2.8	5.1	4.4		4.3
NE	1.3	.2	.4	.3		3.7
E	.5	.1	.2	.3		4.2
SE	.4	.1	.4	.4		5.1
S	.4	.2	.5	.8		5.5
SW	.5	.3	.7	.8		5.4
W	2.3	1.1	2.5	3.3		5.1
NW	17.1	7.7	16.1	18.0		4.6
VAR	.0	.0	.0	.0		.0
CALM	1.1	.3	.6	.9		4.5
TOT OBS					40139	4.6
TOT PCT	31.6	12.9	26.6	29.0	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.3	.1	.4	1.7	2.8	1.5	.5	.2	.1	.1	12.5	
NE	*	*	*	.1	.2	.1	*	*	*	*	1.8	
E	*	*	*	.1	.1	.1	*	*	*	*	.8	
SE	*	.0	*	.1	.2	.1	*	*	*	*	.7	
S	*	*	*	.2	.4	.2	.1	*	*	*	.9	
SW	*	*	.1	.3	.4	.2	.1	*	*	*	1.0	
W	.1	*	.2	1.1	1.9	1.0	.4	.1	.1	*	4.2	
NW	.8	.3	1.6	6.7	11.3	5.5	1.9	.5	.3	.3	29.7	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.1	*	.1	.3	.4	.2	.1	*	*	*	1.8	
TOT OBS												40139
TOT PCT	1.4	.5	2.5	10.5	17.9	8.9	3.1	1.0	.5	.5	53.3	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM) * OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >50YD	* OR >0
* OR >6500	.8	.9	1.0	1.0	1.0	1.0	1.0	1.0
* OR >5000	1.5	1.8	1.9	1.9	1.9	1.9	1.9	1.9
* OR >3500	4.2	4.9	5.0	5.0	5.0	5.0	5.0	5.0
* OR >2000	11.4	13.8	13.9	14.0	14.0	14.0	14.0	14.0
* OR >1000	26.0	31.4	31.8	31.8	31.8	31.8	31.8	31.8
* OR >600	33.2	41.5	42.2	42.2	42.2	42.3	42.3	42.3
* OR >300	34.6	43.8	44.7	44.8	44.8	44.8	44.8	44.8
* OR >150	34.8	44.3	45.2	45.3	45.3	45.3	45.3	45.3
* OR > 0	35.1	44.8	46.0	46.1	46.3	46.4	46.6	46.7

TOTAL NUMBER OF OBS: 40335

PCT FREQ NH <5/8: 53.3

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
21.7	8.3	8.6	7.4	6.4	5.5	7.9	9.9	23.1	1.0	42987

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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	PCP	*	.0	*	.0	.0	.0	*	*	.0	.0	*	
<1/2	NO PCP	.1	*	*	*	*	*	.1	.2	.0	.1	.5	
	TOT %	.1	*	*	*	*	*	.1	.2	.0	.1	.5	
	PCP	*	.0	.0	*	*	*	*	*	.0	.0	*	
1/2<1	NO PCP	*	*	*	*	*	*	*	.1	.0	*	.2	
	TOT %	.1	*	*	*	*	*	*	.1	.0	*	.3	
	PCP	*	.0	.0	*	*	*	*	*	.0	.0	*	
1<2	NO PCP	*	*	*	*	*	*	*	.2	.0	*	.3	
	TOT %	.1	*	*	*	*	*	*	.2	.0	*	.4	
	PCP	*	*	*	*	*	*	*	*	.0	*	.1	
2<5	NO PCP	.4	*	*	*	.1	.1	.2	1.1	.0	.1	2.0	
	TOT %	.4	*	*	*	.1	.1	.2	1.2	.0	.1	2.1	
	PCP	.1	*	*	*	*	*	.1	.1	.0	*	.4	
5<10	NO PCP	9.3	.3	.2	.2	.5	.5	1.7	10.4	.0	.6	17.6	
	TOT %	9.4	.3	.2	.3	.5	.5	1.7	10.5	.0	.6	18.0	
	PCP	*	*	*	*	*	*	.1	.2	.0	*	.4	
10+	NO PCP	19.8	1.9	.9	1.0	1.4	1.7	7.2	46.4	.0	2.1	78.4	
	TOT %	19.8	1.9	.9	1.0	1.4	1.7	7.3	46.6	.0	2.1	78.7	
	TOT OBS												52076
	TOT PCT	19.8	2.2	1.2	1.4	2.1	2.4	9.3	58.8	.0	2.9	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	0-3	*	*	*	*	*	*	*	*	.0	.1	.2	
<1/2	4-10	.1	*	*	*	*	*	*	.2	.0		.3	
	11-21	*	*	.0	.0	.0	*	*	.1	.0		.1	
	22+	.0	.0	*	.0	.0	*	.0	.0	.0		*	
	TOT %	.1	*	*	*	*	*	.1	.3	.0	.1	.6	
	0-3	*	*	*	*	*	*	*	*	.0	*	.1	
1/2<1	4-10	*	*	*	*	*	*	*	.1	.0		.2	
	11-21	*	*	*	*	*	.0	*	*	.0		.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.1	*	*	*	*	*	*	.1	.0	*	.3	
	0-3	*	*	*	*	*	*	*	*	.0	*	.1	
1<2	4-10	*	*	.0	*	*	*	*	.2	.0		.2	
	11-21	*	*	.0	*	*	*	*	.1	.0		.1	
	22+	*	*	*	.0	*	.0	.0	*	.0		*	
	TOT %	.1	*	*	*	*	*	*	.3	.0	*	.5	
	0-3	*	*	*	*	*	*	*	.1	.0	.1	.3	
2<5	4-10	.3	*	*	*	*	.1	.2	.8	.0		1.3	
	11-21	.2	*	*	*	*	*	.1	.6	.0		.8	
	22+	*	*	*	*	*	*	*	*	.0		.1	
	TOT %	.5	*	*	*	.1	.1	.3	1.4	.0	.1	2.6	
	0-3	.2	*	*	.1	.1	.1	.2	.4	.0	.6	1.8	
5<10	4-10	1.4	.2	.1	.2	.3	.3	1.0	4.5	.0		8.0	
	11-21	1.6	.1	*	*	.1	.1	.4	5.0	.0		7.2	
	22+	.1	*	*	*	*	*	*	.4	.0		.6	
	TOT %	3.3	.3	.2	.3	.5	.5	1.7	10.3	.0	.6	17.7	
	0-3	.8	.2	.2	.2	.3	.3	.7	1.5	.0	2.1	6.2	
10+	4-10	6.7	1.1	.5	.6	.9	1.1	4.5	18.5	.0		33.9	
	11-21	7.5	.6	.2	.2	.2	.3	1.9	23.9	.0		34.9	
	22+	.8	.1	*	*	*	*	.1	2.3	.0		3.4	
	TOT %	15.8	1.9	.9	1.0	1.4	1.7	7.2	46.2	.0	2.1	78.4	
	TOT OBS												55139
	TOT PCT	19.8	2.2	1.2	1.4	2.0	2.4	9.3	58.7	.0	3.0	100.0	

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00&03	.9	.5	2.4	9.0	16.5	8.2	3.2	.8	.4	.4	42.2	57.8	11367
06&09	1.1	.6	2.3	8.6	15.7	7.1	2.5	.7	.4	.6	39.6	60.4	9015
12&15	1.7	.6	3.1	11.8	18.8	9.3	2.6	.8	.4	.5	49.5	50.5	8953
18&21	1.8	.5	2.3	11.4	18.8	10.1	3.7	1.2	.7	.4	50.9	49.1	12124
TOT PCT	1.4	.5	2.5	10.2	17.5	8.8	3.1	.9	.5	.5	45.7	54.3	41459 100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00&03	.4	.2	.5	2.2	16.4	80.3	14311
06&09	.5	.2	.4	2.4	17.9	78.6	12326
12&15	.7	.4	.6	2.7	19.8	75.9	12937
18&21	.8	.3	.5	3.1	17.0	78.3	16099
TOT PCT	.6	.3	.5	2.6	17.7	78.3	55673 100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET, NH >4/8), BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	.9	3.8	14.2	29.8	56.0	11055
06&09	1.1	4.1	13.9	27.3	58.8	8730
12&15	1.7	5.6	18.4	32.4	49.2	8754
18&21	1.8	4.8	17.5	35.2	47.3	11796
TOT PCT	1.4	4.6	16.0	31.4	52.6	40335 100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
90/94	.0	.0	.0	.0	*	.0	.0	.0		*
85/89	.0	*	.0	.0	*	.0	*	.0		*
80/84	.0	*	*	*	.1	.1	*	*		.3
75/79	*	*	*	.1	.2	.6	.4	.1		1.5
70/74	*	*	.1	.3	1.1	2.6	3.2	1.5		8.8
65/69	.0	*	.1	.6	2.2	6.2	11.0	6.1		26.3
60/64	*	*	.3	1.2	5.4	11.5	16.5	6.9		41.8
55/59	*	*	.2	.7	2.4	5.7	7.8	3.4		20.2
50/54	.0	*	*	.1	.2	.2	.2	.2		1.1
45/49	.0	.0	*	*	*	*	*	*		*
TOTAL PCT	*	.2	.8	3.0	11.7	26.9	39.0	18.3	42118	100.0

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
*	*	.0	.0	.0	.0	.0	.0	.0	.0
.0	*	.0	*	.0	.0	.0	*	.0	.0
*	*	*	*	*	*	*	.1	.0	*
.3	*	*	*	.1	*	.2	.8	.0	.1
1.7	.2	.1	.1	.2	.2	.9	5.1	.0	.4
5.1	.5	.3	.4	.5	.6	2.4	15.8	.0	.7
8.5	.9	.4	.5	.9	1.0	3.8	24.6	.0	1.3
4.3	.5	.2	.2	.4	.4	1.7	12.0	.0	.5
.2	.1	*	*	*	*	.1	.6	.0	*
*	*	.0	.0	.0	*	*	*	.0	*
70.1	2.2	1.1	1.3	2.0	2.2	9.0	59.0	.0	3.0

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00&03	90	76	72	64	59	57	47	64.7	14923
06&09	91	70	67	62	58	56	45	62.1	12659
12&15	93	69	66	61	57	55	47	61.6	13516
18&21	88	74	71	64	59	57	48	64.5	16431
TOT	93	74	70	63	58	56	45	63.3	57529

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00&03	*	5.0	14.4	30.6	37.3	12.7	78	11190
06&09	.0	2.3	8.3	22.8	42.1	24.5	82	9489
12&15	*	2.7	8.2	22.3	41.4	25.4	83	9825
18&21	*	5.6	14.5	30.5	36.4	13.1	78	12020
TOT	7	1667	4961	11496	16628	7765	80	42524

PERIOD: (PRIMARY) 1948-1974
(OVER-ALL) 1860-1974

AREA 0030 BAJA
29.4N 116.6W

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	45 48	49 52	53 56	57 60	61 64	65 68	69 72	73 76	77 80	81 84	85 88	89 92	TOT	W FOG	WO FOG
23/25	.0	.0	.0	.0	.0	.(	.0	.0	.0	*	.0	.0	1	.0	*
20/22	.0	.0	.0	.0	*	.0	.0	.0	.0	*	*	.0	3	.0	*
17/19	.0	.0	.0	.0	*	*	*	*	*	*	*	*	29	.0	.1
14/16	.0	.0	.0	.0	*	*	*	.1	.1	*	*	.0	105	*	.2
11/13	.0	.0	*	*	.1	.1	.1	.2	.1	*	.0	.0	271	*	.5
9/10	.0	.0	*	*	.1	.2	.3	.2	.1	*	.0	.0	477	*	1.0
7/8	.0	.0	*	.1	.3	.5	.6	.3	.1	*	.0	.0	944	*	1.9
6	.0	.0	.0	.1	.3	.5	.4	.2	.1	*	.0	.0	772	*	1.5
5	.0	.0	*	.1	.6	1.0	.6	.3	.1	*	.0	.0	1327	.1	2.6
4	.0	.0	*	.2	1.3	1.5	.9	.3	.1	*	*	.0	2072	.1	4.1
3	.0	.0	*	.3	1.5	1.6	.8	.3	*	*	.0	.0	2214	.1	4.4
2	.0	*	*	.9	3.3	2.3	1.2	.3	*	*	.0	.0	3944	.2	7.8
1	.0	.0	.1	1.3	3.5	2.1	1.1	.2	*	.0	.0	.0	4059	.3	8.1
0	.0	*	.2	3.5	6.0	3.3	1.4	.2	*	*	.0	.0	7139	.5	14.1
-1	.0	*	.2	3.7	4.2	2.6	.8	.1	*	.0	.0	.0	5631	.3	11.3
-2	.0	*	.6	4.8	4.9	2.7	.7	.1	*	.0	.0	.0	6676	.5	13.3
-3	.0	*	.6	3.4	2.8	1.6	.4	*	*	.0	.0	.0	4344	.3	8.7
-4	*	*	.9	2.9	2.3	1.3	.2	*	*	.0	.0	.0	3666	.2	7.4
-5	.0	*	.7	1.5	1.2	.7	.1	*	*	*	.0	.0	2065	.1	4.2
-6	.0	*	.5	1.0	.7	.3	.1	*	.0	.0	.0	.0	1237	.1	2.5
-7/-8	.0	.1	.4	.7	.6	.4	.1	*	.0	.0	.0	.0	1057	.1	2.1
-9/-10	*	*	.1	.2	.2	.1	*	*	.0	.0	.0	.0	316	*	.6
-11/-13	*	*	.1	.1	.1	*	*	*	.0	.0	.0	.0	125	*	.3
-14/-16	.0	*	*	*	*	*	*	.0	.0	.0	.0	.0	42	*	.1
-17/-19	.0	*	*	*	*	*	.0	.0	.0	.0	.0	.0	8	.0	*
TOTAL													48524		
PCT	*	.3	4.6	24.1	33.7	22.9	10.1	2.8	.7	.1	*	*	100.0	3.2	96.8

PERIOD: (OVER-ALL) 1963-1974

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.4	1.1	*	.0	.0	.0	1.5
1-2	.3	4.2	2.0	.0	.0	.0	6.5
3-4	.1	2.2	4.1	.2	.0	.0	6.5
5-6	*	.5	2.8	.3	.0	.0	3.7
7	.0	.1	1.1	.3	.0	.0	1.5
8-9	.0	*	.3	.2	*	.0	.5
10-11	.0	*	.1	.1	*	.0	.2
12	.0	.0	*	*	.0	.0	*
13-16	.0	.0	*	*	.0	.0	*
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.7	8.2	10.4	1.1	*	.0	20.4

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.2	*	.0	.0	.0	.3
1-2	*	.7	.2	.0	.0	.0	.9
3-4	*	.3	.4	*	.0	.0	.7
5-6	.0	.1	.2	.1	*	.0	.4
7	.0	*	*	*	.0	.0	.1
8-9	.0	*	.1	*	*	.0	.1
10-11	.0	.0	*	*	.0	.0	*
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	1.3	.9	.1	*	.0	2.5

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.2	*	.0	.0	.0	.3
1-2	*	.4	.1	.0	.0	.0	.4
3-4	*	.1	.1	.0	.0	.0	.2
5-6	*	*	*	.0	.0	.0	.1
7	.0	.0	*	*	.0	.0	*
8-9	.0	*	.0	*	*	.0	*
10-11	.0	.0	.0	*	.0	.0	*
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.1	.7	.2	*	*	.0	1.1

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.2	*	.0	.0	.0	.2
1-2	*	.4	.1	.0	.0	.0	.5
3-4	*	.1	.2	*	.0	.0	.3
5-6	*	*	.1	*	.0	.0	.1
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	*	.0	.0	*
10-11	.0	.0	*	.0	.0	.0	*
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.1	.6	.4	*	.0	.0	1.1

PERIOD: (OVER-ALL) 1963-1974

ANNUAL

TABLE 18 (CONT)

AREA 0030 BAJA 29.4N 116.6W

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

	S							SW						
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	.2	*	.0	.0	.0	.4	.1	.3	.0	.0	.0	.0	.4
1-2	.1	.3	.1	.0	.0	.0	.6	.1	.6	.1	.0	.0	.0	.8
3-4	*	.1	.2	.0	.0	.0	.3	*	.2	.2	*	.0	.0	.5
5-6	.0	*	.1	.0	.0	.0	.1	.0	*	.1	*	.0	.0	.1
7	.0	.0	*	.0	*	.0	*	.0	*	*	*	*	.0	.1
8-9	.0	.0	*	.0	.0	.0	*	.0	*	*	*	.0	.0	*
10-11	.0	.0	*	.0	.0	.0	*	.0	.0	.0	*	.0	.0	*
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	.9	.4	.0	*	.0	1.5	.2	1.2	.5	.1	*	.0	1.9

	W							NW							TOTAL
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	PCT
<1	.3	.8	*	.0	.0	.0	1.1	.7	2.3	.1	.0	.0	.0	3.1	
1-2	.3	2.6	.6	.0	.0	.0	3.5	.6	11.5	5.7	.0	.0	.0	17.8	
3-4	*	1.1	1.0	*	.0	.0	2.2	.1	7.3	13.3	.5	.0	.0	21.2	
5-6	*	.2	.6	.1	.0	.0	.9	*	1.9	8.8	1.0	.0	.0	11.6	
7	.0	.1	.2	.1	.0	.0	.3	*	.3	3.0	.7	*	.0	4.1	
8-9	.0	*	.1	*	.0	.0	.1	.0	.1	.9	.5	.1	.0	1.5	
10-11	.0	.0	*	*	.0	.0	*	.0	*	.3	.2	*	.0	.5	
12	.0	.0	*	.0	.0	.0	*	*	*	.1	.1	.0	.0	.2	
13-16	.0	*	.0	*	.0	.0	*	.0	*	*	.1	*	.0	.1	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	.0	*	.0	*	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	.0	*	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.6	4.8	2.5	.2	.0	.0	8.2	1.5	23.4	32.1	3.0	.1	.0	60.2	96.8

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	5.3	5.3	.2	.0	.0	.0	10.8	
1-2	1.5	20.8	8.7	.0	.0	.0	31.1	
3-4	.3	11.4	19.3	.8	.0	.0	31.8	
5-6	.1	2.7	12.6	1.4	*	.0	16.8	
7	*	.5	4.3	1.1	*	.0	6.0	
8-9	.0	.2	1.3	.8	.1	.0	2.3	
10-11	.0	*	.4	.3	*	.0	.8	
12	*	*	.1	.1	.0	.0	.2	
13-16	.0	*	.1	.1	*	.0	.2	
17-19	.0	.0	*	.0	*	.0	*	
20-22	.0	.0	.0	.0	*	.0	*	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
								16174
TOT PCT	7.2	41.1	47.0	4.6	.2	.0	100.0	

PERIOD: (OVER-ALL) 1949-1973

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	3.8	14.2	17.9	8.2	2.5	.9	.3	.1	.1	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	17546	3
6-7	.1	2.0	8.4	9.0	4.0	1.7	.7	.2	.2	*	*	.0	.0	.0	.0	.0	.0	.0	.0	9685	5
8-9	*	.8	2.2	3.4	2.3	1.4	.5	.3	.2	*	*	.0	.0	.0	.0	.0	.0	.0	.0	4154	6
10-11	.0	.7	.8	1.2	.9	.7	.4	.2	.1	*	*	*	*	.0	.0	.0	.0	.0	.0	1814	6
12-13	.0	.0	.6	.4	.3	.2	.2	.1	.1	*	*	.0	.0	.0	.0	.0	.0	.0	.0	696	6
>13	.0	.0	.0	.2	.2	.2	.1	.1	.1	*	*	.0	.0	.0	.0	.0	.0	.0	.0	314	8
INDET	2.9	1.2	1.2	.8	.4	.2	.1	*	*	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	2486	2
TOTAL																				36698	4
PCT	6.8	18.9	31.1	23.2	10.7	5.2	2.2	.9	.8	.1	*	*	*	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1948-1974
(OVER-ALL) 1860-1974

AREA 0030 BAJA
29.4N 110.6W

TABLE 20

PERCENT FREQUENCY OF OCCURRENCE OF SEA TEMP (DEG F) BY MONTH

SEA TMP DEG F	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN	PCT
98+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
95/96	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
93/94	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
91/92	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
89/90	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
87/88	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
85/86	.0	.0	.0	.0	.0	.0	.0	.0	*	.0	.0	.0	1	*
83/84	.0	.0	.0	.0	.0	.0	.0	*	.1	.1	.0	.0	9	*
81/82	.0	.0	.0	.0	.0	.0	*	.1	.2	.2	*	.0	23	*
79/80	.0	.0	.0	.0	.0	.1	.1	.1	.3	.2	.1	*	40	.1
77/78	.0	*	*	*	*	*	.1	.6	1.0	.5	.1	.1	109	.2
75/76	*	*	*	.1	*	*	.4	1.7	2.8	1.6	.3	.1	306	.8
73/74	.1	.1	*	*	*	.0	.9	4.8	7.4	3.3	1.2	.6	804	1.5
71/72	.1	.1	.1	.1	.2	.2	3.0	12.8	15.3	8.8	2.9	.9	1951	3.6
69/70	.8	.2	.3	.2	.4	1.0	9.8	24.1	22.7	19.2	7.5	3.3	3914	7.3
67/68	2.0	1.1	.7	1.1	1.5	3.6	17.9	26.6	26.5	28.9	18.7	7.4	5959	11.1
65/66	6.9	3.3	2.2	3.4	6.8	12.9	26.9	17.4	15.1	22.6	27.8	16.6	7054	13.2
63/64	20.3	14.6	13.3	16.2	24.8	37.3	27.9	8.5	6.8	10.6	28.0	29.6	10641	19.9
61/62	30.7	29.8	25.0	30.9	31.3	28.3	9.3	2.2	1.4	2.8	9.2	23.4	10106	18.9
59/60	29.4	30.7	34.4	31.7	23.2	11.7	2.8	.6	.4	.9	3.0	12.7	8112	15.2
57/58	10.8	13.6	17.4	12.1	7.9	3.4	.5	.2	.1	.3	.7	3.6	3247	6.1
55/56	2.4	3.1	4.7	2.8	2.7	.9	.3	.2	.0	.1	.3	1.0	896	1.6
53/54	.7	.8	1.2	.8	.9	.4	.1	*	.0	*	.1	.3	269	.5
51/52	.2	.2	.3	.4	.2	.2	.0	.0	.0	.0	.1	.1	78	.1
49/50	.1	.1	.2	.1	.1	*	.0	.0	.0	.0	*	.2	37	.1
47/48	.1	.1	*	*	*	.0	.0	.0	.0	.0	.0	.1	13	*
45/46	.0	*	*	*	*	.0	.0	.0	.0	.0	.0	*	5	*
43/44	.0	.0	*	*	.0	.0	.0	.0	.0	.0	.0	.0	3	*
41/42	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
39/40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
37/38	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
35/36	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
33/34	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
31/32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
29/30	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
27/28	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
<27	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
TOTAL	4399	4292	4963	4719	4771	4553	4400	4362	4332	4576	4249	3903	53519	100.0
MEAN	61.2	60.6	60.1	60.6	61.4	62.6	65.5	68.2	68.8	67.6	65.3	63.2	63.7	

TABLE 21

PRESSURE (MB)

AVERAGE BY HOUR (GMT)

MO	0000	0300	0600	0900	1200	1500	1800	2100	MEAN	TOTAL OBS
JAN	1018	1018	1019	1017	1018	1018	1020	1018	1018	4314
FEB	1017	1017	1018	1017	1018	1018	1019	1017	1018	4306
MAR	1016	1017	1018	1016	1017	1017	1018	1017	1017	4946
APR	1015	1015	1017	1014	1015	1015	1017	1016	1016	4816
MAY	1013	1014	1015	1013	1015	1014	1016	1014	1015	4734
JUN	1013	1013	1014	1013	1013	1013	1015	1014	1014	4597
JUL	1013	1013	1014	1012	1013	1013	1015	1013	1014	4496
AUG	1013	1013	1013	1012	1013	1013	1014	1013	1013	4434
SEP	1011	1012	1012	1011	1012	1012	1013	1012	1012	4331
OCT	1013	1014	1015	1013	1014	1014	1015	1014	1014	4491
NOV	1016	1017	1017	1016	1016	1017	1018	1017	1017	4195
DEC	1017	1018	1018	1017	1017	1018	1019	1018	1018	3816
ANN	1015	1015	1016	1014	1015	1015	1017	1015	1016	53436
OBS	12629	902	10480	1457	10670	1646	14018	1634		

PERCENTILES

MO	MIN	1%	5%	25%	50%	75%	95%	99%	MAX
JAN	1001	1009	1012	1016	1019	1021	1024	1026	1033
FEB	1001	1009	1013	1016	1018	1020	1023	1025	1029
MAR	1001	1009	1012	1015	1017	1019	1022	1025	1030
APR	1001	1009	1011	1014	1016	1018	1020	1022	1026
MAY	1000	1008	1011	1013	1015	1017	1019	1021	1028
JUN	1000	1007	1010	1012	1014	1015	1018	1019	1027
JUL	1001	1007	1010	1012	1014	1015	1017	1019	1025
AUG	1000	1005	1009	1012	1013	1015	1017	1019	1023
SEP	998	1005	1007	1010	1012	1014	1016	1018	1023
OCT	1001	1007	1010	1013	1014	1016	1019	1021	1025
NOV	1002	1009	1012	1015	1017	1019	1021	1023	1027
DEC	1001	1007	1012	1016	1018	1020	1023	1026	1030

JANUARY

PERIOD: (PRIMARY) 1896-1973
(OVER-ALL) 1871-1973

AREA 0031 SAN DIEGO 200 SW
29.5N 122.4W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA				
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	.2	1.4	.7	.0	.0	.0	.0	2.2	.5	.0	2.3	.7	.3		.0	93.8
NE	.3	1.4	.0	.0	.0	.0	.0	1.7	.7	.0	.7	.0	.3		.0	96.6
E	5.3	.0	.0	.0	.0	.0	.0	5.3	.0	.0	.0	.0	1.3		.0	93.4
SE	13.6	.0	.0	.0	.0	.0	.0	13.6	.0	.0	4.5	.0	.0		.0	81.8
S	3.1	1.2	3.1	.0	.0	.0	.0	7.4	2.5	.0	6.1	.0	.0		.0	84.0
SW	5.4	1.1	1.1	.0	.0	.0	.0	7.6	2.2	.0	7.1	.0	.0		.0	83.2
W	.0	4.1	3.2	.0	.0	.0	.0	7.2	1.8	.0	8.6	.0	.0		.0	82.4
NW	1.1	.1	.1	.0	.0	.0	.0	1.4	.8	.0	.7	.0	.0		.0	97.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6.3	.0	.0		.0	93.8
TOT PCT	1.5	1.1	.8	.0	.0	.0	.0	3.4	.9	.0	2.7	.2	.2		.0	92.9
TOT OBS:	877															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA				
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00&03	1.5	1.2	.0	.0	.0	.0	.0	2.7	.8	.0	4.2	.0	.8		.0	91.5
06&09	1.7	.6	1.7	.0	.0	.0	.0	3.9	1.7	.0	1.7	.0	.0		.0	92.8
12&15	1.3	1.8	1.8	.0	.0	.0	.0	4.8	.9	.0	3.1	.4	.0		.0	90.8
18&21	1.4	.9	.0	.0	.0	.0	.0	2.3	.5	.0	1.4	.5	.0		.0	95.4
TOT PCT	1.5	1.1	.8	.0	.0	.0	.0	3.4	.9	.0	2.7	.2	.2		.0	92.8
TOT OBS:	885															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	1.0	11.6	17.9	3.3	.0	.0		33.8	13.1	35.1	31.0	30.3	35.3	33.9	39.6	33.7	33.3
NE	.7	5.8	9.1	1.0	.0	.0		16.5	13.1	14.2	12.5	17.6	19.5	15.0	21.9	18.5	17.1
E	.6	2.1	1.6	.1	.0	.0		4.3	9.2	4.2	9.5	3.0	3.0	3.9	8.1	2.1	5.0
SE	.5	1.3	.9	.2	.0	.0		2.9	9.6	2.3	1.7	.4	3.0	1.8	1.2	4.9	6.6
S	.9	3.8	3.5	.5	.0	.0		8.8	11.0	9.1	11.6	9.3	11.0	9.8	4.6	9.3	6.9
SW	.7	1.9	2.9	.1	.0	.0		5.6	10.2	6.3	6.0	7.6	3.0	4.5	6.9	2.6	7.3
W	1.3	2.9	2.1	.3	.0	.0		6.8	9.0	8.2	6.5	9.7	8.0	7.6	2.3	4.2	6.8
NW	1.0	9.2	7.4	1.8	.1	.0		19.6	12.0	21.1	21.1	19.1	17.0	21.7	15.8	20.6	16.4
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.8							1.8	.0	1.5	.0	3.0	.0	1.8	.0	4.2	1.3
TOT OBS	83	376	443	69	2	0	973		11.7	206	58	132	50	168	65	143	151
TOT PCT	8.5	38.6	45.5	7.1	.2	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)				
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	4.8	20.1	8.4	.5	.0		33.8	13.1	34.2	31.7	35.5	33.5
NE	2.5	8.3	5.7	.1	.0		16.5	13.1	13.8	18.1	16.8	17.8
E	1.4	2.7	.2	.1	.0		4.3	9.2	5.4	3.0	5.0	3.6
SE	1.1	1.4	.5	.0	.0		2.9	9.6	2.2	1.1	1.6	5.8
S	2.5	4.5	1.8	.0	.0		8.8	11.0	9.7	9.8	8.4	7.7
SW	1.8	3.1	.7	.0	.0		5.6	10.2	6.3	6.3	5.2	4.9
W	2.4	3.7	.3	.1	.0		6.6	9.0	6.3	9.2	6.1	5.3
NW	3.9	11.7	3.2	.8	.0		19.6	12.0	21.1	18.5	20.1	18.5
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	1.8						1.8	.0	1.1	2.2	1.3	2.7
TOT OBS	217	539	202	15	0	973		11.7	204	182	233	294
TOT PCT	22.3	55.4	20.8	1.5	.0		100.0		100.0	100.0	100.0	100.0

JANUARY

PERIOD: (PRIMARY) 1896-1973
(OVER-ALL) 1871-1973

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	1.1	7.2	37.5	47.0	7.2	.0	.0	12.0	100.0	264
06&09	2.2	3.8	41.8	44.5	7.1	.5	.0	11.7	100.0	182
12&15	1.3	8.2	36.5	47.6	6.0	.4	.0	11.9	100.0	233
18&21	2.7	6.8	39.5	43.2	7.8	.0	.0	11.4	100.0	294
TOT	18	65	376	443	69	2	0	11.7		973
PCT	1.8	6.7	38.6	45.5	7.1	.2	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	8.8	4.8	13.7	6.3		4.7
NE	6.8	1.8	6.1	2.6		3.9
E	.8	.3	.9	1.2		3.3
SE	.1	.5	.7	1.8		6.5
S	.7	.0	3.3	3.8		6.4
SW	.8	.2	1.5	2.2		6.1
W	1.0	1.0	2.5	2.8		5.8
NW	3.6	3.6	7.4	9.1		5.2
VAR	.0	.0	.0	.0		.0
CALM	.0	.3	1.0	1.2		6.4
TOT OBS	136	79	222	102	598	5.1
TOT PCT	22.7	13.2	37.1	27.0	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NM >4/8) AND OCCURRENCE OF NM <5/8 BY WIND DIRECTION

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NM <5/8 ANY HGT	TOTAL OBS
N	.1	.0	1.1	1.5	6.7	6.0	1.3	.0	.0	.5	16.5	
NE	.2	.2	.2	1.0	3.1	1.3	.3	.0	.0	.3	10.9	
E	.0	.0	.0	.3	.8	.2	.0	.0	.0	.0	1.9	
SE	.0	.0	.0	.3	.4	.5	.2	.0	.0	.1	1.5	
S	.0	.2	.0	.5	1.5	2.0	.5	.0	.0	.2	3.6	
SW	.0	.0	.0	.5	1.8	.6	.0	.0	.0	.2	1.7	
W	.0	.0	.2	.9	1.5	1.5	.0	.1	.0	.3	5.0	
NW	.2	.0	.4	.8	2.6	5.6	1.4	.1	.0	.1	8.6	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.2	.3	.8	.2	.0	.2	.0	.8	
TOT OBS	3	2	11	35	112	110	23	1	1	10	291	599
TOT PCT	.5	.3	1.8	5.8	18.7	18.4	3.8	.2	.2	1.7	48.6	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NM >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM) • OR >10	• OR >5	• OR >2	• OR >1	• OR >1/2	• OR >1/4	• OR >50YD	• OR >0
• OR >6500	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
• OR >5000	1.8	2.0	2.0	2.0	2.0	2.0	2.0	2.0
• OR >3500	5.4	6.2	6.2	6.2	6.2	6.2	6.2	6.2
• OR >2000	19.3	23.0	23.9	23.9	23.9	23.9	23.9	23.9
• OR >1000	34.6	41.2	42.5	42.3	42.5	42.7	42.7	42.7
• OR >600	39.0	46.6	48.4	48.4	48.4	48.6	48.6	48.6
• OR >300	40.2	48.4	50.3	50.3	50.3	50.4	50.4	50.4
• OR >150	40.2	48.7	50.6	50.6	50.6	50.8	50.8	50.8
• OR > 0	40.5	49.2	51.1	51.1	51.1	51.3	51.3	51.3
TOTAL	241	293	304	304	304	305	305	305

TOTAL NUMBER OF OBS: 599

PCT FREQ NM <5/8: 48.7

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
11.5	9.1	10.4	8.1	9.2	10.4	11.8	11.1	18.3	.2	628

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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	*	.1	.0	.0	.0	.1	
	TOT %	.0	.0	.0	.0	.0	*	.1	.0	.0	.0	.1	
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.7	.0	.0	.0	.5	.3	.0	.0	.0	.1	1.6	
	TOT %	.7	.0	.0	.0	.5	.3	.0	.0	.0	.1	1.6	
1<2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	TOT %	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	
2<5	PCP	.0	.0	.1	.1	.2	.3	.1	*	.0	.0	.8	
	NO PCP	.2	.3	.1	*	.1	*	.2	.7	.0	.0	1.6	
	TOT %	.2	.3	.1	.1	.3	.4	.3	.7	.0	.0	2.4	
5<10	PCP	.6	.2	.2	.3	.5	.1	.2	.2	.0	.0	2.3	
	NO PCP	8.6	4.7	2.3	.6	2.9	1.4	1.9	6.0	.0	.0	28.5	
	TOT %	9.2	5.0	2.5	.9	3.4	1.9	2.1	6.2	.0	.0	30.7	
10+	PCP	.2	.1	.0	.0	.0	.0	.1	*	.0	.0	.3	
	NO PCP	29.1	11.6	1.7	1.5	5.2	3.1	3.7	13.1	.0	1.7	64.7	
	TOT %	29.2	11.7	1.7	1.5	5.2	3.1	3.8	13.1	.0	1.7	65.0	
	TOT OBS												875
	TOT PCT	33.4	16.9	4.3	2.5	9.3	5.3	6.3	20.1	.0	1.8	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	*	.1	.0	.0		.1	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.0	.0	*	.1	.0	.0	.0	.1	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	
	4-10	.3	.0	.0	.0	.0	.1	.0	.0	.0		.5	
	11-21	.3	.0	.0	.0	.3	.2	.0	.0	.0		1.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.7	.0	.0	.0	.3	.3	.0	.0	.0	.1	1.6	
1<2	0-3	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	
	4-10	.1	.0	.0	.0	.0		.0	.0	.0		.1	
	11-21	.0	.0	.0	.0	.0		.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0		.0	.0	.0		.0	
	TOT %	.1	.0	.0	.0	.0		.0	.0	.0	.0	.1	
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.1	
	4-10	.0	.0	.1	*	.2	.2	.3	.4	.0		1.1	
	11-21	.0	.1	.1	.1	.1	.1	.0	.2	.0		.7	
	22+	.2	.1	.0	.0	.0	.1	.1	.0	.0		.5	
	TOT %	.2	.3	.1	.1	.3	.4	.3	.7	.0	.0	2.4	
5<10	0-3	.2	.0	.2	.2	.5	.3	.9	.3	.0	.0	2.6	
	4-10	2.8	1.5	.8	.4	1.4	.4	.6	2.7	.0		10.4	
	11-21	5.9	3.3	1.5	.3	1.4	.8	.5	2.8	.0		16.3	
	22+	.3	.2	.0	.0	.2	.0	.1	.5	.0		1.4	
	TOT %	9.2	5.0	2.5	.9	3.4	1.5	2.1	6.2	.0	.0	30.7	
10+	0-3	.8	.3	.3	.1	.3	.3	.3	.6	.0	1.7	5.1	
	4-10	7.4	4.4	1.3	.8	2.6	1.3	1.8	6.1	.0		25.7	
	11-21	12.2	6.1	.1	.4	1.7	1.4	1.7	4.8	.0		28.6	
	22+	2.8	.0	.0	.2	.4	.0	.0	1.6	.0		5.0	
	TOT %	23.2	11.7	1.7	1.5	5.2	3.1	3.8	13.1	.0	1.7	65.0	
	TOT OBS												875
	TOT PCT	33.4	16.9	4.3	2.5	9.3	5.3	6.3	20.1	.0	1.8	100.0	

JANUARY

PERIOD: (PRIMARY) 1996-1973
(OVER-ALL) 1871-1973

AREA 0031 SAN DIEGO 200 SW
29.5N 122.4W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET,NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00E03	.6	.0	1.7	6.3	18.8	18.8	2.8	.6	.0	1.1	50.6	49.4	176
06E09	.7	.0	2.9	6.5	16.7	22.5	2.9	.0	.7	2.2	55.1	44.9	138
12E15	.0	.0	1.4	4.3	22.5	18.8	3.6	.0	.0	1.4	52.2	47.8	138
18E21	.6	1.2	1.2	5.6	15.4	13.0	6.8	.0	.0	1.9	45.7	54.3	162
TOT	3	2	11	35	112	111	25	1	1	10	311	303	614
PCT	.5	.3	1.8	5.7	18.2	18.1	4.1	.2	.2	1.6	50.7	49.3	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00E03	.0	2.7	.0	2.3	34.4	60.6	259
06E09	.6	.6	.0	2.8	27.1	69.1	181
12E15	.0	1.8	.0	3.5	34.8	59.9	227
18E21	.0	.9	.5	.9	25.9	71.8	216
TOT	1	14	1	21	273	573	883
PCT	.1	1.6	.1	2.4	30.9	64.9	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET,NH >4/8),BY HOUR

HOUR (GMT)	<150 <500YD	<600 <1	<1000 <3	1000+ AND3+	NH <3/8 AND 3+	TOTAL OBS
00E03	.6	2.3	9.9	41.3	48.8	172
06E09	.0	4.6	13.7	42.7	43.5	131
12E15	.0	1.5	8.1	44.4	47.4	135
18E21	.6	3.2	10.8	36.9	52.2	157
TOT	3	17	63	245	287	595
PCT	.5	2.9	10.6	41.2	48.2	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
70/74	.0	.0	.0	.3	.3	.2	.0	.0	6	1.0
65/69	.0	.2	.2	.0	.9	.9	1.7	1.0	28	4.8
60/64	.0	.0	.9	1.7	4.8	15.1	14.0	6.9	249	43.1
55/59	.0	.0	.5	3.3	10.9	14.9	11.2	5.5	208	40.4
50/54	.0	.0	.0	.7	1.9	.7	1.2	.2	27	4.7
TOTAL	0	1	9	39	108	183	163	79	578	100.0
PCT	.0	.2	1.6	6.1	18.7	31.7	28.2	13.7		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.6	.0	.0	.0	.0	.0	.0	.2	.0	.2
1.3	.3	.0	.1	1.2	.3	.9	.6	.0	.2
12.2	8.2	1.9	1.2	6.0	2.2	3.9	0.8	.0	.7
18.3	7.9	1.0	.8	1.2	2.1	3.2	10.8	.0	1.0
1.8	.7	.3	.1	.1	.0	.0	1.9	.0	.2
34.3	17.2	3.2	2.2	8.4	4.6	8.0	19.9	.0	2.2

TABLE 15

MEANS,EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	90%	5%	1%	MIN	MEAN	TOTAL OBS
00E03	71	69	65	60	39	33	32	59.8	206
06E09	67	66	64	59	34	33	31	58.7	165
12E15	70	67	63	59	34	31	30	58.5	253
18E21	70	69	65	60	35	33	31	60.1	292
TOT	71	68	65	59	34	32	30	59.3	976

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00E03	.0	6.8	10.9	33.1	31.2	10.4	77	184
06E09	.8	7.3	17.7	33.1	21.8	20.2	78	124
12E15	.0	8.3	17.4	27.8	33.3	13.2	77	144
18E21	.0	6.8	23.1	30.6	29.6	11.9	78	160
TOT	0	43	110	184	164	79	77	982

JANUARY

PERIOD: (PRIMARY) 1896-1973
(OVER-ALL) 1871-1973

AREA 0031 SAN DIEGO 200 SW
29.5N 122.4W

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	49 52	53 56	57 60	61 64	65 68	69 72	TOT	W FOG	WO FOG
11/13	.0	.0	.0	.0	.0	.1	1	.0	.1
9/10	.0	.0	.0	.0	.1	.3	3	.0	.6
7/8	.0	.0	.0	.2	.2	.2	6	.0	.7
6	.0	.0	.1	.0	.4	.0	4	.0	.8
5	.0	.0	.1	.4	.6	.1	10	.1	1.1
4	.0	.0	.4	.8	.4	.0	13	.0	1.8
3	.0	.0	.4	2.2	.6	.0	27	.0	3.2
2	.0	.2	.5	3.1	1.5	.0	48	.1	5.2
1	.0	.4	1.6	2.8	.4	.0	44	.0	5.2
0	.0	.2	4.6	4.7	.2	.0	83	.2	9.8
-1	.0	.7	4.8	9.2	.0	.0	91	1.2	9.8
-2	.1	1.2	7.5	9.9	.1	.0	109	.4	12.5
-3	.0	1.6	8.5	2.9	.0	.0	111	.6	12.5
-4	.0	3.2	7.9	1.1	.0	.0	103	.1	12.0
-5	.1	4.7	6.2	.6	.0	.0	99	.0	11.6
-6	.1	2.8	2.2	.6	.0	.0	49	.1	5.6
-7/-8	.1	2.6	1.6	.0	.0	.0	37	.0	4.3
-9/-10	.4	.7	.4	.0	.0	.0	12	.0	1.4
-11/-13	.0	.0	.1	.0	.0	.0	1	.0	.1
-14/-16	.0	.1	.0	.0	.0	.0	1	.0	.1
TOTAL	7		398		38			24	827
		158		242		8	851		
PCT	.8	18.6	46.8	28.4	4.5	.9	100.0	2.8	97.2

PERIOD: (OVER-ALL) 1963-1973

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.2	.0	.0	.0	.0	.2
1-2	.0	5.1	4.4	.0	.0	.0	9.5
3-4	.0	5.2	9.8	1.2	.0	.0	16.0
5-6	.0	.3	4.9	1.5	.0	.0	6.7
7	.0	.6	3.1	.2	.0	.0	3.9
8-9	.0	.0	.6	.9	.0	.0	1.5
10-11	.0	.0	.3	.3	.0	.0	.6
12	.0	.0	.0	.6	.0	.0	.6
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	11.4	23.0	4.7	.0	.0	39.1

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	1.5	.0	.0	.0	.0	1.8
1-2	.3	4.1	2.4	.0	.0	.0	6.9
3-4	.0	2.1	3.1	.6	.0	.0	5.8
5-6	.0	.0	2.1	.1	.0	.0	2.2
7	.0	.0	2.3	.1	.0	.0	2.3
8-9	.0	.0	.3	.0	.0	.0	.3
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.3	.0	.0	.0	.0	.3
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.6	8.0	10.2	.8	.0	.0	19.7

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	.2	.0	.0	.0	.0	.6
1-2	.0	1.8	.0	.0	.0	.0	1.8
3-4	.0	.2	.2	.0	.0	.0	.5
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.3	.0	.0	.0	.3
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	2.3	.6	.0	.0	.0	3.2

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.2	.0	.0	.0	.0	.2
1-2	.0	.4	.3	.0	.0	.0	.7
3-4	.0	.1	.0	.0	.0	.0	.1
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.3	.0	.0	.0	.0	.3
8-9	.0	.0	.3	.1	.0	.0	.4
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	1.0	.6	.1	.0	.0	1.7

PERIOD: (OVER-ALL) 1963-1973

JANUARY

TABLE 18 (CONT)

AREA 0031 SAN DIEGO 200 SW
29.5N 122.4W

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

	S							SW						
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.4	.0	.0	.0	.0	1.4	.0	.5	.0	.0	.0	.0	.5
1-2	.0	.6	.2	.0	.0	.0	.8	.0	.4	1.1	.0	.0	.0	1.5
3-4	.0	.0	.8	.0	.0	.0	.8	.3	.2	.8	.0	.0	.0	1.3
5-6	.0	.0	.6	.0	.0	.0	.6	.0	.0	.4	.0	.0	.0	.4
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.3	.2	.0	.0	.6	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.0	.0	.0	.3
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	1.9	1.9	.2	.0	.0	4.1	.3	1.1	2.6	.0	.0	.0	4.0

	W							NW						TOTAL
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	PCT
<1	.6	.6	.0	.0	.0	.0	1.1	.4	1.3	.3	.0	.0	.0	2.0	
1-2	.6	1.2	.6	.0	.0	.0	2.4	.1	4.9	1.0	.0	.0	.0	5.9	
3-4	.0	1.9	1.5	.0	.0	.0	3.4	.0	3.2	2.1	.4	.0	.0	5.7	
5-6	.0	.3	.0	.0	.0	.0	.3	.0	.3	1.1	.4	.0	.0	1.8	
7	.0	.0	.0	.0	.0	.0	.0	.0	.4	1.5	.0	.0	.0	1.9	
8-9	.0	.2	.3	.0	.0	.0	.6	.0	.1	.3	.1	.0	.0	.5	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7	.0	.0	.7	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	1.1	4.3	2.4	.0	.0	.0	7.8	.5	10.2	6.2	1.6	.0	.0	18.5	98.1

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	3.6	5.8	.3	.0	.0	.0	9.7	
1-2	1.0	18.4	10.0	.0	.0	.0	29.4	
3-4	.3	12.9	18.1	2.3	.0	.0	33.7	
5-6	.0	1.0	9.1	1.9	.0	.0	12.0	
7	.0	1.3	7.1	.3	.0	.0	8.7	
8-9	.0	.3	2.3	1.3	.0	.0	3.9	
10-11	.0	.0	.3	.3	.0	.0	.6	
12	.0	.0	.0	1.3	.0	.0	1.3	
13-16	.0	.3	.3	.0	.0	.0	.6	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	4.9	40.1	47.6	7.4	.0	.0	100.0	309

PERIOD: (OVER-ALL) 1950-1973

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	2.0	10.4	17.9	6.2	3.8	1.0	.4	.2	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	211	4
6-7	.0	1.8	6.2	6.2	6.2	2.6	1.2	1.6	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	130	6
8-9	.0	.6	1.6	2.8	6.8	.8	.4	.8	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	70	6
10-11	.0	.4	1.8	2.0	2.0	1.4	.2	1.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	46	6
12-13	.0	.0	1.2	.6	.2	.2	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	12	5
>13	.0	.0	.0	.0	.4	.6	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7	8
INDET	2.8	.4	.6	.4	.2	.2	.2	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	26	3
TOTAL	24	68	147	91	97	34	13	20	7	1	0	0	0	0	0	0	0	0	0	502	5
PCT	4.8	13.5	29.3	18.1	19.3	6.8	2.6	4.0	1.4	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

FEBRUARY

PERIOD: (PRIMARY) 1930-1974
(OVER-ALL) 1869-1974

AREA 0031 SAN DIEGO 200 SW
29.6N 122.3W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	.6	2.3	1.4	.0	.0	.0	.0	4.3	.0	.0	4.8	.0	.0		.0	90.9
NE	.6	.0	.9	.0	.0	.0	.0	1.4	.0	.0	1.4	.0	1.2		.0	95.9
E	.0	.0	2.3	.0	.0	.0	.0	2.3	.0	.0	3.1	.0	.0		.0	94.5
SE	6.3	.0	.0	.0	.0	.0	.0	6.3	.0	3.2	.8	.0	.0		.0	89.7
S	4.7	.9	5.6	.0	.0	.0	.0	11.2	5.1	.0	4.7	.0	.0		.0	79.1
SW	5.8	5.0	1.7	.0	.0	.0	.0	12.4	.4	.0	2.9	.0	.8		.0	83.5
W	3.3	8.0	2.3	.0	.0	.0	.0	13.7	.0	.0	8.3	.0	.7		.0	77.3
NW	1.9	1.9	2.9	.0	.0	.0	.0	6.8	.6	.0	4.1	.6	.0		.0	88.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	100.0
TOT PCT	2.0	2.4	2.0	.0	.0	.0	.0	6.5	.5	.1	4.2	.1	.3		.0	88.3
TOT OBS:	788															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00&03	1.4	1.4	.5	.0	.0	.0	.0	3.2	.0	.0	4.2	.0	.0		.0	92.6
06&09	2.3	2.9	2.3	.0	.0	.0	.0	7.6	.6	.0	2.3	.6	.0		.0	88.9
12&15	1.9	4.4	3.9	.0	.0	.0	.0	10.2	1.5	.5	3.4	.0	.5		.0	84.0
18&21	2.9	1.0	1.5	.0	.0	.0	.0	5.4	.0	.0	6.3	.0	.5		.0	87.8
TOT PCT	2.1	2.4	2.0	.0	.0	.0	.0	6.5	.5	.1	4.1	.1	.3		.0	88.3
TOT OBS:	798															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	.8	11.7	15.9	4.7	.1	.0		33.2	13.9	32.7	34.2	34.0	36.2	34.8	27.1	32.8	33.6
NE	.7	6.3	3.7	.5	.0	.0		11.2	10.1	12.3	22.8	8.6	2.6	7.8	12.5	10.4	15.0
E	.6	2.5	.5	.2	.0	.0		3.9	8.2	2.7	4.3	3.8	3.9	2.6	10.4	4.4	3.3
SE	.6	1.9	1.1	.3	.0	.0		3.9	9.7	5.3	3.8	2.3	6.6	2.8	2.1	5.1	3.7
S	.4	2.9	2.7	.4	.0	.0		6.5	11.1	4.3	4.9	9.0	10.5	7.4	7.9	7.0	3.9
SW	.2	3.6	3.3	.6	.0	.0		7.7	11.9	8.0	7.6	7.1	6.6	8.4	7.1	7.0	8.6
W	.4	4.7	3.1	1.2	.1	.0		9.6	12.2	12.1	7.6	6.5	5.9	9.1	9.2	8.7	12.9
NW	1.3	8.2	10.1	3.1	.1	.0		22.8	13.5	22.6	14.7	26.5	27.6	25.0	23.8	22.6	17.4
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.3							1.3	.0	.0	.0	2.3	.0	2.1	.0	2.0	1.6
TOT OBS	54	359	947	95	3	0	858		12.3	169	46	131	38	145	60	147	122
TOT PCT	6.3	41.8	40.4	11.1	.3	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	3.9	18.0	10.3	1.0	.0		33.2	13.9	33.0	34.5	32.6	33.2
NE	3.1	6.7	1.2	.3	.0		11.2	10.1	14.5	7.2	9.1	12.5
E	1.8	1.9	.1	.1	.0		3.9	8.2	3.0	3.8	4.9	3.9
SE	1.2	2.3	.3	.1	.0		3.9	9.7	5.0	3.3	2.6	4.5
S	1.3	4.1	1.1	.0	.0		6.5	11.1	4.4	9.3	7.6	5.6
SW	1.9	3.8	1.8	.2	.0		7.7	11.9	7.9	7.0	8.0	7.7
W	2.1	5.4	1.4	.6	.0		9.6	12.2	11.2	6.4	9.1	10.6
NW	3.6	11.8	6.5	.9	.0		22.8	13.5	20.9	26.8	24.6	20.3
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	1.3						1.3	.0	.0	1.8	1.5	1.9
TOT OBS	173	463	194	28	0	858		12.3	215	169	205	269
TOT PCT	20.2	54.0	22.6	3.3	.0		100.0		100.0	100.0	100.0	100.0

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AREA 0031 SAN DIEGO 200 SW
29.6N 122.3W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	.0	6.0	40.0	45.6	7.9	.5	.0	12.1	100.0	215
06&09	1.8	4.1	48.2	39.6	11.2	.0	.0	12.5	100.0	169
12&15	1.5	4.4	42.9	36.6	14.1	.5	.0	12.5	100.0	205
18&21	1.9	5.2	41.6	39.8	11.2	.4	.0	12.3	100.0	269
TOT	11	43	359	347	95	3	0	12.3		858
PCT	1.3	5.0	41.8	40.4	11.1	.3	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	8.5	5.7	13.3	6.3		4.7
NE	2.1	2.5	3.2	3.2		5.1
E	.4	.4	.8	1.0		5.6
SE	.3	.4	2.0	1.3		6.2
S	1.9	.6	1.2	3.2		5.3
SW	1.2	1.3	1.6	2.7		5.5
W	1.3	1.3	2.6	4.3		5.9
NW	4.9	4.2	8.8	6.0		5.0
VAR	.0	.0	.0	.0		.0
CALM	.7	.4	.2	.0		2.4
TOT OBS	120	95	189	158	562	5.1
TOT PCT	21.4	16.9	33.6	28.1	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.7	.0	1.0	1.6	5.6	5.6	1.4	.3	.0	.4	17.2	
NE	.1	.0	*	.4	1.1	1.4	*	.0	.2	1.2	6.7	
E	.2	.0	.0	.3	.7	.1	.1	.0	.0	.2	1.2	
SE	*	.0	.0	.2	.6	.7	.3	.2	.0	.4	1.6	
S	.3	.0	.2	.4	1.6	1.3	.0	.1	.2	.0	2.8	
SW	.2	.0	.2	.4	1.2	.6	.2	*	.0	.0	3.9	
W	.7	.0	.4	.5	2.4	.7	.8	.0	.0	.2	4.0	
NW	.5	.7	.4	1.6	4.4	3.3	1.5	.3	.4	.0	10.9	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	1.1	
TOT OBS	15	4	12	31	99	77	25	5	6	13	277	562
TOT PCT	2.7	.7	2.1	5.5	17.6	13.7	4.4	.9	.7	2.3	49.3	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM) * OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >50YD	* OR >0
* OR >6500	1.9	2.8	3.0	3.0	3.0	3.0	3.0	3.0
* OR >5000	2.6	3.7	3.9	3.9	3.9	3.9	3.9	3.9
* OR >3500	6.7	8.3	8.5	8.5	8.5	8.5	8.5	8.5
* OR >2000	18.0	21.7	22.0	22.0	22.0	22.0	22.0	22.0
* OR >1000	31.0	38.6	39.5	39.5	39.5	39.5	39.5	39.5
* OR >600	35.3	44.3	45.1	45.3	45.3	45.3	45.3	45.3
* OR >300	35.6	45.7	46.9	47.3	47.4	47.4	47.4	47.4
* OR >150	35.6	46.0	47.3	47.8	48.1	48.1	48.1	48.1
* OR > 0	36.0	46.7	48.1	48.9	49.6	49.9	50.3	50.8
TOTAL	204	265	273	277	281	283	285	288

TOTAL NUMBER OF OBS: 567

PCT FREQ NH <5/8: 49.2

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
13.0	6.7	10.4	9.2	9.4	7.9	12.3	10.3	18.8	2.1	585

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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	PCP	.1	.0	.0	.0	.0	.0	.0	.1	.0	.0	.1	
<1/2	NO PCP	.2	.1	.1	*	.1	.1	.3	.0	.0	.0	.9	
	TOT %	.3	.1	.1	*	.1	.1	.3	.1	.0	.0	1.0	
	PCP	.2	.1	.0	.0	.0	.0	.1	.3	.0	.0	.6	
1/2<1	NO PCP	.1	*	.0	.0	.0	.0	.0	.1	.0	.0	.3	
	TOT %	.3	.1	.0	.0	.0	.0	.1	.4	.0	.0	.9	
	PCP	.0	.0	.0	.0	.0	.0	.0	.3	.0	.0	.3	
1<2	NO PCP	.3	.0	.0	.0	.1	.2	.3	.3	.0	.0	1.0	
	TOT %	.3	.0	.0	.0	.1	.2	.3	.5	.0	.0	1.3	
	PCP	.1	.1	.0	.0	.3	.1	.1	.1	.0	.0	.8	
2<5	NO PCP	.3	.3	.1	.0	.0	.2	.1	.3	.0	.0	1.4	
	TOT %	.4	.4	.1	.0	.3	.3	.2	.4	.0	.0	2.2	
	PCP	1.0	.0	.0	.1	.2	.8	1.0	.8	.0	.0	3.8	
5<10	NO PCP	10.2	2.2	1.8	1.1	1.5	2.7	2.3	5.2	.0	.1	27.2	
	TOT %	11.2	2.2	1.8	1.3	1.7	3.4	3.2	6.0	.0	.1	31.0	
	PCP	.1	*	.1	.1	.3	.1	.1	.0	.0	.0	.9	
10+	NO PCP	20.2	8.2	1.9	2.6	4.3	3.6	5.3	15.5	.0	1.1	62.8	
	TOT %	20.3	8.2	2.0	2.7	4.7	3.7	5.5	15.5	.0	1.1	63.7	
	TOT OBS												788
	TOT PCT	32.7	10.9	4.1	4.0	6.8	7.7	9.5	23.0	.0	1.3	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	0-3	.1	.0	.0	.0	.0	.1	.1	.0	.0	.0	.3	
<1/2	4-10	.1	.0	.1	*	.1	.0	.1	.1	.0		.5	
	11-21	.1	.1	.0	.0	.0	.0	.1	.0	.0		.3	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.3	.1	.1	*	.1	.1	.3	.1	.0	.0	1.0	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	4-10	.1	.0	.0	.0	.0	.0	.0	.0	.0		.1	
	11-21	.2	.1	.0	.0	.0	.0	.1	.4	.0		.8	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.3	.1	.0	.0	.0	.0	.1	.4	.0	.0	.9	
	0-3	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.1	
1<2	4-10	.3	.0	.0	.0	.1	.2	.3	.1	.0		.9	
	11-21	.0	.0	.0	.0	.0	.0	.0	.3	.0		.3	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.3	.0	.0	.0	.1	.2	.3	.5	.0	.0	1.3	
	0-3	.1	.0	.0	.0	.0	.0	.0	*	.0	.0	.1	
2<5	4-10	.3	.4	.0	.0	.1	.1	.0	.3	.0		1.3	
	11-21	.0	.0	.0	.0	.1	.2	.1	.1	.0		.5	
	22+	.0	.0	.1	.0	.0	.0	.1	.0	.0		.3	
	TOT %	.4	.4	.1	.0	.3	.3	.2	.4	.0	.0	2.2	
	0-3	.3	.2	.6	.0	.1	.0	.0	.1	.0	.1	1.4	
5<10	4-10	3.6	1.5	1.2	.6	.4	1.7	1.3	1.6	.0		11.9	
	11-21	5.2	.3	.1	.5	.9	1.4	1.4	2.6	.0		12.3	
	22+	2.1	.2	.0	.1	.3	.3	.5	1.8	.0		5.3	
	TOT %	11.2	2.2	1.8	1.3	1.7	3.4	3.2	6.0	.0	.1	31.0	
	0-3	.3	.4	.1	.6	.3	.2	.2	.9	.0	1.1	4.1	
10+	4-10	8.9	4.6	1.4	1.2	2.3	1.8	3.2	6.5	.0		27.9	
	11-21	10.4	2.9	.4	.7	1.9	1.6	1.5	6.7	.0		26.1	
	22+	2.8	.3	.1	.2	.2	.2	.5	1.4	.0		5.6	
	TOT %	20.3	8.2	2.0	2.7	4.7	3.7	5.5	15.5	.0	1.1	63.7	
	TOT OBS												788
	TOT PCT	32.7	10.9	4.1	4.0	6.8	7.7	9.5	23.0	.0	1.3	100.0	

FEBRUARY

PERIOD: (PRIMARY) 1930-1974
(OVER-ALL) 1869-1974

AREA 0031 SAN DIEGO 200 SW
29.6N 122.3W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET,NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00&03	1.9	1.3	3.1	6.9	20.1	15.1	4.4	.6	.0	2.5	56.0	44.0	159
06&09	3.9	.8	1.6	3.9	14.2	10.2	7.1	.0	.0	3.1	44.9	55.1	127
12&15	2.4	.0	1.6	3.3	18.7	10.6	3.3	.0	2.4	1.6	43.9	56.1	123
18&21	2.4	.6	1.8	7.9	15.9	16.5	3.7	2.4	.6	1.8	53.7	46.3	164
TOT	15	4	12	33	99	77	26	5	4	13	288	285	573
PCT	2.6	.7	2.1	5.8	17.3	13.4	4.5	.9	.7	2.3	50.3	49.7	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00&03	.5	.5	.9	1.9	30.6	65.7	216
06&09	1.8	1.2	1.8	2.3	30.4	62.6	171
12&15	1.5	1.5	1.0	1.9	39.3	54.9	206
18&21	.5	.5	1.5	2.4	23.9	71.2	205
TOT	8	7	10	17	248	508	798
PCT	1.0	.9	1.3	2.1	31.1	63.7	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET,NH >4/8), BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	1.9	6.4	14.0	43.3	42.7	157
06&09	4.0	7.1	12.7	33.3	54.0	126
12&15	2.5	5.0	11.6	34.7	53.7	121
18&21	2.5	4.9	12.9	41.1	46.0	163
TOT	15	33	73	219	275	567
PCT	2.6	5.8	12.9	38.6	48.5	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
70/74	.0	.0	.0	.3	.3	.5	.0	.0	7	1.2
65/69	.0	.0	.0	.5	.7	2.6	3.1	1.9	51	8.8
60/64	.0	.0	.0	.5	5.9	16.2	13.9	9.1	265	45.6
55/59	.0	.0	.0	.2	7.2	10.5	13.8	7.2	226	38.9
50/54	.0	.0	.0	.0	1.4	1.2	2.4	.3	31	5.3
45/49	.0	.0	.0	.0	.0	.0	.2	.0	1	.2
TOTAL	0	0	0	9	90	180	194	108	581	100.0
PCT	.0	.0	.0	1.5	15.5	31.0	33.4	18.6		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.4	.2	.0	.2	.0	.0	.0	.4	.0	.0
2.3	.6	.2	.6	.9	.7	.8	2.6	.0	.0
12.5	5.6	1.4	1.7	3.9	4.3	6.2	9.5	.0	.5
15.4	4.5	1.3	.9	1.6	1.5	2.8	9.9	.0	1.0
2.5	.1	.0	.0	.0	.2	.5	2.1	.0	.0
.0	.0	.0	.1	.1	.0	.0	.0	.0	.0
33.0	11.1	2.9	3.5	6.5	6.8	10.2	24.5	.0	1.5

TABLE 15

MEANS,EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00&03	74	70	67	61	55	53	52	61.0	216
06&09	67	65	64	59	55	54	52	58.9	170
12&15	71	66	64	58	52	49	48	58.2	201
18&21	72	68	66	60	56	54	53	60.7	269
TOT	74	68	66	60	54	51	48	59.8	856

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00&03	.0	2.5	15.7	40.3	27.0	14.5	78	159
06&09	.0	1.6	9.7	32.3	37.1	19.4	82	124
12&15	.0	.7	14.8	23.9	38.7	21.8	82	142
18&21	.0	1.2	21.7	26.7	31.7	18.6	80	161
TOT	0	9	93	181	195	108	80	586

PERIOD: (PRIMARY) 1930-1974
(OVER-ALL) 1869-1974

TABLE 17

AREA 0031 SAN DIEGO 200 SW
29.6N 122.3W

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	45 48	49 52	53 56	57 60	61 64	65 68	69 72	73 76	TOT	W FOG	WO FOG
11/13	.0	.0	.0	.0	.0	.0	.1	.1	2	.0	.3
9/10	.0	.0	.0	.1	.0	.1	.5	.0	6	.0	.8
7/8	.0	.0	.0	.1	.1	.8	.1	.0	9	.0	1.2
6	.0	.0	.1	.0	.7	1.5	.0	.0	17	.3	2.0
5	.0	.0	.0	.4	.4	1.8	.0	.0	19	.0	2.6
4	.0	.0	.3	.1	1.6	.8	.0	.0	21	.1	2.7
3	.0	.0	.1	.4	2.3	1.2	.0	.0	30	.4	3.7
2	.0	.0	.1	2.4	4.1	.7	.0	.0	54	.3	7.0
1	.0	.0	.5	2.8	5.7	.7	.0	.0	72	.4	9.3
0	.0	.0	.4	7.5	5.6	.7	.0	.0	104	.8	13.3
-1	.0	.1	1.4	4.7	3.0	.0	.0	.0	68	.4	8.8
-2	.0	.1	1.6	8.1	3.1	.1	.0	.0	97	.5	12.6
-3	.0	.1	1.4	6.5	1.5	.1	.0	.0	71	.3	9.3
-4	.0	.3	2.8	4.7	.5	.0	.0	.0	62	.4	8.0
-5	.0	.1	1.9	3.7	.1	.0	.0	.0	43	.3	5.6
-6	.0	.1	2.6	1.8	.0	.0	.0	.0	33	.0	4.5
-7/-8	.0	.4	1.5	1.1	.4	.0	.0	.0	25	.0	3.4
-9/-10	.1	.3	.1	.0	.0	.0	.0	.0	4	.0	.5
-11/-13	.0	.1	.0	.0	.0	.0	.0	.0	1	.0	.1
TOTAL	1	13	110	329	215	63	6	1	738	31	707
PCT	.1	1.8	14.9	44.6	29.1	8.5	.8	.1	100.0	4.2	95.8

PERIOD: (OVER-ALL) 1963-1974

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	2.2	.0	.0	.0	.0	2.5
1-2	.7	6.0	2.6	.0	.0	.0	9.3
3-4	.0	2.7	6.1	1.2	.0	.0	10.1
5-6	.0	1.0	4.2	.0	.0	.0	5.2
7	.0	.0	1.4	2.3	.0	.0	3.7
8-9	.0	.0	.6	.3	.0	.0	.9
10-11	.0	.0	.0	1.0	.0	.0	1.0
12	.0	.0	.0	.2	.0	.0	.2
13-16	.0	.0	.3	.0	.0	.0	.3
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.9	11.9	15.3	5.1	.0	.0	33.3

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	1.2	.0	.0	.0	.0	1.6
1-2	.0	3.6	1.1	.0	.0	.0	4.7
3-4	.3	1.5	.1	.0	.0	.0	1.9
5-6	.0	.7	1.5	.3	.0	.0	2.5
7	.0	.0	.3	.3	.0	.0	.7
8-9	.0	.0	.0	.3	.0	.0	.3
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.7	7.0	3.0	1.0	.0	.0	11.7

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.3	.0	.0	.0	.3
1-2	.3	2.2	.3	.0	.0	.0	2.8
3-4	.0	.2	.0	.0	.0	.0	.2
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.3	.0	.0	.3
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	2.4	.7	.3	.0	.0	3.7

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.5	.0	.0	.0	.0	.5
1-2	.3	.7	.3	.0	.0	.0	1.4
3-4	.0	.0	.3	.3	.0	.0	.7
5-6	.0	.0	.3	.0	.0	.0	.3
7	.0	.3	.0	.0	.0	.0	.3
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.3	.0	.0	.3
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	1.6	1.0	.7	.0	.0	3.6

PERIOD: (OVER-ALL) 1963-1974 FEBRUARY AREA 0031 SAN DIEGO 200 SW 29.6N 122.3W

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

	S							SW						
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.7	2.8	.0	.0	.0	.0	3.5	.1	1.1	.0	.0	.0	.0	1.2
1-2	.0	.6	1.2	..	.0	.0	1.7	.3	.3	1.2	.0	.0	.0	1.8
3-4	.0	.3	.2	.2	.0	.0	.8	.0	.3	.4	.1	.0	.0	.8
5-6	.0	.3	.3	.0	.0	.0	.7	.0	.7	.3	.3	.0	.0	1.3
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7	.0	.0	.0	.7
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.0	.0	.0	.3
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.7	4.1	1.7	.2	.0	.0	6.7	.4	2.4	2.9	.4	.0	.0	6.1

	W							NW							TOTAL
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	PCT
<1	.6	.5	.0	.0	.0	.0	1.1	.1	.9	.0	.0	.0	.0	1.0	
1-2	.0	1.7	.6	.0	.0	.0	2.3	1.0	3.1	2.3	.0	.0	.0	6.4	
3-4	.0	.7	.5	.0	.0	.0	1.2	.3	2.8	3.9	.1	.0	.0	7.1	
5-6	.0	.0	.3	.0	.0	.0	.3	.0	1.7	3.9	1.3	.0	.0	6.9	
7	.0	.3	.0	.0	.0	.0	.3	.0	.0	2.6	.7	.0	.0	3.2	
8-9	.0	.3	.0	.0	.0	.0	.3	.0	.0	.4	.7	.0	.0	1.1	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7	.0	.0	.0	.7	
12	.0	.0	.3	.0	.0	.0	.3	.0	.0	.3	.7	.0	.0	1.1	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.6	3.6	1.7	.0	.0	.0	5.9	1.4	8.4	14.1	3.5	.0	.0	27.4	98.3

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	3.6	9.2	.3	.0	.0	.0	13.2	
1-2	3.0	18.2	9.6	.0	.0	.0	30.7	
3-4	.7	8.6	11.6	2.0	.0	.0	22.8	
5-6	.0	4.3	10.9	2.0	.0	.0	17.2	
7	.0	.7	5.0	3.3	.0	.0	8.9	
8-9	.0	.3	1.3	1.3	.0	.0	3.0	
10-11	.0	.0	.7	1.3	.0	.0	2.0	
12	.0	.0	.7	1.0	.0	.0	1.7	
13-16	.0	.0	.3	.3	.0	.0	.7	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	7.3	41.3	40.3	11.2	.0	.0	100.0	303

PERIOD: (OVER-ALL) 1950-1974 TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	1.6	11.8	13.2	5.4	2.4	1.0	.6	1.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	186	4
6-7	.2	3.2	9.6	7.4	4.6	1.6	1.6	1.2	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	148	5
8-9	.0	1.8	4.8	3.6	1.4	.8	1.2	.8	1.0	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	80	6
10-11	.0	.0	1.8	2.6	1.4	.6	1.0	.2	1.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	44	7
12-13	.0	.0	.4	.6	1.0	.6	.6	.0	.6	.4	.2	.0	.0	.0	.0	.0	.0	.0	.0	22	9
>13	.0	.0	.0	.0	.0	.0	.0	.2	.4	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	6	14
INDET	.6	.6	.4	.6	.6	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	15	4
TOTAL	12	87	151	101	87	23	26	17	16	4	5	0	0	0	0	0	0	0	0	499	5
PCT	2.4	17.4	30.3	20.2	11.4	4.6	5.2	3.4	3.2	.8	1.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

MARCH

PERIOD: (PRIMARY) 1932-1974
(OVER-ALL) 1870-1974

AREA 0031 SAN DIEGO 200 SW
29.5N 122.3W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG	DUST BLWG SNOW	NO SIG WEA
N	.3	2.3	.0	.0	.0	.0	.0	2.7	1.6	.0	1.4	.0	.3	.0	.0	94.0
NE	.0	1.6	.0	.0	.0	.0	.0	1.6	.0	.0	2.3	.0	.0	.0	.0	96.1
E	.0	.0	3.3	.0	.0	.0	.0	3.3	.0	4.3	15.2	.0	.0	.0	.0	77.2
SE	4.2	.0	2.1	.0	.0	.0	.0	6.3	.0	.0	12.5	.0	.0	.0	.0	81.3
S	3.2	.0	4.8	.0	.0	.0	.0	8.1	.0	.0	3.2	.0	.0	.0	.0	88.7
SW	.0	.0	.8	.0	.0	.0	.0	.8	1.7	.0	3.4	.0	.0	.0	.0	94.1
W	.0	3.1	.0	.0	.0	.0	.0	3.1	2.6	.0	.9	.0	.0	.0	.0	93.4
NW	.0	2.7	.0	.0	.0	.0	.0	2.7	.8	.0	.2	.0	1.3	.0	.0	95.1
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
TOT PCT	.3	2.1	.3	.0	.0	.0	.0	2.7	1.2	.2	2.0	.0	.5	.0	.0	93.5
TOT OBS:	663															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG	DUST BLWG SNOW	NO SIG WEA
00&03	.0	3.1	.3	.0	.0	.0	.0	3.6	.0	.0	1.5	.0	.0	.0	.0	94.9
06&09	.0	2.3	.0	.0	.0	.0	.0	2.3	3.8	.0	1.5	.0	.0	.0	.0	92.5
12&15	.0	2.9	.0	.0	.0	.0	.0	2.9	.6	.6	2.9	.0	1.2	.0	.0	91.9
18&21	1.2	.6	.6	.0	.0	.0	.0	2.3	1.2	.0	1.7	.0	.6	.0	.0	94.2
TOT PCT	.3	2.2	.3	.0	.0	.0	.0	2.8	1.2	.1	1.9	.0	.4	.0	.0	93.5
TOT OBS:	674															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	.6	17.2	21.3	5.2	.0	.0		44.4	13.6	45.0	48.1	43.3	36.5	41.3	48.9	51.2	37.9
NE	.1	4.6	4.7	.4	.0	.0		9.8	11.7	10.6	9.6	9.2	11.5	11.5	11.7	7.0	9.3
E	.2	2.5	1.1	.0	.0	.0		3.8	8.9	3.4	3.8	3.3	4.2	3.2	7.4	2.2	6.2
SE	.2	1.2	.3	.0	.1	.0		1.9	9.7	2.3	.0	2.0	4.2	1.0	2.1	1.8	2.6
S	.2	1.4	1.0	.0	.0	.0		2.6	9.3	2.4	1.3	2.7	4.2	1.4	.0	4.0	3.6
SW	.5	2.4	1.8	.1	.0	.0		4.9	10.6	1.8	3.2	7.6	8.3	3.8	2.7	5.4	8.2
W	.6	4.7	3.4	.3	.0	.0		9.0	10.5	6.8	14.1	6.3	12.5	12.3	9.0	6.0	12.4
NW	.5	8.0	10.4	4.1	.3	.0		23.1	14.7	27.8	19.9	23.9	18.8	24.6	18.1	21.6	19.8
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.6							.6	.0	.0	.0	1.8	.0	.8	.0	.8	.0
TOT OBS	25	304	317	73	3	0	722		12.8	154	39	112	24	124	47	125	97
TOT PCT	3.5	42.1	43.9	10.1	.4	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	6.6	23.2	13.5	1.0	.0		44.4	13.6	45.6	42.1	43.6	45.6
NE	1.6	6.4	1.7	*	.0		9.8	11.7	10.4	9.6	11.5	8.0
E	1.7	1.9	.3	.0	.0		3.8	8.9	3.5	3.5	4.4	3.9
SE	.6	1.1	.1	.1	.0		1.9	9.7	1.8	2.4	1.3	2.1
S	.9	1.5	.2	.0	.0		2.6	9.3	2.2	2.9	1.0	3.8
SW	1.2	2.6	1.0	.1	.0		4.9	10.6	2.1	7.7	3.5	6.6
W	2.5	5.1	1.4	.1	.0		9.0	10.5	8.3	7.4	11.4	8.8
NW	2.8	11.6	7.2	1.5	.0		23.1	14.7	26.2	23.0	22.8	20.8
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	.6						.6	.0	.0	1.5	.6	.5
TOT OBS	134	385	183	20	0	722		12.8	193	196	171	222
TOT PCT	18.6	53.3	25.3	2.8	.0		100.0		100.0	100.0	100.0	100.0

PERIOD: (PRIMARY) 1932-1974
(OVER-ALL) 1870-1974

AREA 0031 SAN DIEGO 700 SW
29.5N 122.3W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS) 11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	.0	3.1	39.9	46.1	10.4	.5	.0	13.0	100.0	193
06&09	1.5	.7	41.9	48.5	7.4	.0	.0	12.3	100.0	136
12&15	.6	3.5	41.5	40.4	13.5	.6	.0	13.2	100.0	171
18&21	.5	3.6	44.6	41.9	9.0	.5	.0	12.6	100.0	222
TOT	4	21	304	317	73	3	0	12.8		722
PCT	.6	2.9	42.1	43.9	10.1	.4	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	9.2	8.6	19.2	10.9		5.2
NE	4.0	1.8	3.0	1.8		4.1
E	.6	.4	.6	.6		4.7
SE	.4	.2	.5	.8		5.5
S	.5	.3	.9	.7		5.3
SW	1.5	1.1	.8	.6		3.9
W	1.4	1.7	2.2	1.5		4.8
NW	5.9	4.2	7.5	5.8		4.9
VAR	.0	.0	.0	.0		.0
CALM	.4	.2	.0	.2		3.2
TOT OBS	111	86	160	106	463	4.9
TOT PCT	24.0	18.6	34.6	22.9	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
.0	.0	.6	4.0	12.5	7.7	.4	.2	.2	.2	22.1	
.0	.0	.1	.8	1.5	1.7	.0	.0	.0	.0	6.5	
.0	.2	.0	.2	.4	.0	.2	.0	.0	.0	1.3	
.0	.5	.0	.3	.1	.0	.0	.2	.0	.0	.9	
.0	.0	.3	.0	.3	.4	.5	.0	.0	.0	1.0	
.0	.0	.1	.1	.1	.8	.2	.0	.0	.0	2.6	
.0	.0	.2	.6	1.1	1.0	.0	.0	.0	.0	3.8	
.0	.0	.4	2.2	5.3	3.2	.2	.0	.1	.1	11.9	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.9	
0	3	8	38	99	68	7	1	2	1	236	463
.0	.6	1.7	8.2	21.4	14.7	1.5	.2	.4	.2	51.0	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM) ▪ OR >10	▪ OR >5	▪ OR >2	▪ OR >1	▪ OR >1/2	▪ OR >1/4	▪ OR >50YD	▪ OR >0
▪ OR >6500	.6	.6	.6	.6	.6	.6	.6	.6
▪ OR >5000	.9	.9	.9	.9	.9	.9	.9	.9
▪ OR >3500	2.1	2.1	2.4	2.4	2.4	2.4	2.4	2.4
▪ OR >2000	12.8	16.7	16.9	16.9	16.9	16.9	16.9	16.9
▪ OR >1000	28.7	37.7	38.1	38.1	38.1	38.1	38.1	38.1
▪ OR >600	34.9	46.0	46.5	46.5	46.5	46.5	46.5	46.5
▪ OR >300	36.4	47.8	48.2	48.2	48.2	48.2	48.2	48.2
▪ OR >150	37.0	48.4	48.8	48.8	48.8	48.8	48.8	48.8
▪ OR > 0	37.0	48.4	48.8	48.8	48.8	48.8	48.8	48.8
TOTAL	173	226	228	228	228	228	228	228

TOTAL NUMBER OF OBS: 467

PCT FREQ NH <5/8: 51.2

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
10.8	7.5	12.8	8.9	10.1	3.9	11.6	15.1	19.3 .0	483

PERIOD: (PRIMARY) 1932-1974
(OVER-ALL) 1870-1974

AREA 0031 SAN DIEGO 200 SW
29.3N 122.3W

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.1	.1	.0	.0	.0	.2	
	TOT %	.0	.0	.0	.0	.0	.1	.1	.0	.0	.0	.2	
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.2	
	NO PCP	.5	.2	.5	.2	.0	.0	.0	.0	.0	.0	1.4	
	TOT %	.5	.2	.5	.2	.0	.0	.0	.2	.0	.0	1.5	
1<2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
2<5	PCP	.0	.0	.0	.1	.1	.0	.0	.0	.0	.0	.2	
	NO PCP	.3	.0	.0	.0	.1	.1	.2	.0	.0	.3	.8	
	TOT %	.3	.0	.0	.1	.2	.1	.2	.0	.0	.0	.9	
5<10	PCP	1.2	.0	.1	*	.1	*	.2	.5	.0	.0	2.1	
	NO PCP	11.7	3.1	1.4	.3	.2	1.0	3.2	6.1	.0	.0	27.1	
	TOT %	12.9	3.1	1.5	.3	.3	1.1	3.4	6.5	.0	.0	29.2	
10+	PCP	.0	.2	.0	.0	.0	.0	.1	*	.0	.0	.3	
	NO PCP	31.3	6.3	1.5	1.2	1.8	3.3	4.9	17.1	.0	.6	67.9	
	TOT %	31.3	6.4	1.5	1.2	1.8	3.3	5.0	17.2	.0	.6	68.2	
	TOT OBS												658
	TOT PCT	44.9	9.7	3.5	1.8	2.4	4.5	8.7	23.9	.0	.6	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.1	.1	.0	.0		.2	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.0	.0	.1	.1	.0	.0	.0	.2	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.3	.2	.5	.2	.0	.0	.0	.0	.0		1.2	
	11-21	.2	.0	.0	.0	.0	.0	.0	.2	.0		.3	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.5	.2	.5	.2	.0	.0	.0	.2	.0	.0	1.5	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.2	.0	.1	*	.1	.1	.2	.0	.0		.8	
	11-21	.2	.0	.0	.1	.1	.0	.0	.0	.0		.3	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.3	.0	.1	.1	.2	.1	.2	.0	.0	.0	1.1	
5<10	0-3	.2	.0	.2	.2	.1	.2	.3	.1	.0	.0	1.2	
	4-10	4.8	1.2	.7	.0	.2	.2	1.4	2.0	.0		10.4	
	11-21	6.6	1.7	.6	.2	.1	.5	1.7	3.3	.0		14.8	
	22+	1.3	.2	.0	.0	.0	.1	.1	1.1	.0		2.7	
	TOT %	12.8	3.1	1.5	.3	.3	1.1	3.5	6.5	.0	.0	29.1	
10+	0-3	.4	.1	.1	.1	.1	.3	.2	.2	.0	.6	2.1	
	4-10	12.2	3.2	.8	.9	.9	1.8	2.8	6.4	.0		29.1	
	11-21	14.7	2.8	.5	*	.8	1.1	1.8	7.3	.0		29.0	
	22+	4.2	.3	.0	.2	.0	.0	.2	3.2	.0		8.0	
	TOT %	31.5	6.4	1.5	1.2	1.8	3.2	5.0	17.0	.0	.6	68.2	
	TOT OBS												663
	TOT PCT	45.1	9.6	3.6	1.8	2.3	4.5	8.7	23.7	.0	.6	100.0	

MARCH

PERIOD: (PRIMARY) 1932-1974
(OVER-ALL) 1870-1974

AREA 0031 SAN DIEGO 200 SW
29.5N 122.3W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET,NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00E03	.0	.0	2.0	9.0	20.1	15.7	.7	.7	1.5	.0	50.7	49.3	134
06E09	.0	1.0	1.0	5.9	20.8	14.9	2.0	.0	.0	1.0	46.5	53.5	101
12E15	.0	.9	.9	6.5	22.4	15.9	.9	.0	.0	.0	47.7	52.3	107
18E21	.0	.8	1.5	10.8	21.5	12.3	2.3	.0	.0	.0	49.2	50.8	130
TOT	0	3	8	39	100	69	7.	1	2	1	230	242	472
PCT	.0	.6	1.7	8.3	21.2	14.6	1.5	.2	.4	.2	48.7	51.3	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00E03	.5	1.5	.0	1.0	27.2	69.7	195
06E09	.0	.7	.0	2.2	27.6	69.4	134
12E15	.0	2.3	.0	.6	36.8	60.3	174
18E21	.0	1.2	.0	.6	25.1	73.1	171
TOT	1	10	0	7	197	459	674
PCT	.1	1.5	.0	1.0	29.2	68.1	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET,NH >4/8),BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00E03	.0	3.0	12.0	39.1	48.9	133
06E09	.0	2.0	10.0	37.0	53.0	100
12E15	.0	1.9	8.6	39.0	52.4	105
18E21	.0	2.3	13.2	35.7	51.2	129
TOT	0	11	52	176	239	467
PCT	.0	2.4	11.1	37.7	51.2	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
79/79	.0	.0	.0	.0	.2	.0	.0	.0	1	.2
70/74	.0	.0	.2	.0	1.4	.6	.4	.2	14	2.8
65/69	.0	.2	.0	.6	1.6	3.6	3.0	.6	48	9.6
60/64	.0	.0	.4	1.6	7.4	12.0	12.6	3.4	187	37.5
55/59	.0	.0	.4	.6	6.8	19.2	15.4	4.0	232	46.5
50/54	.0	.0	.0	.2	.8	.6	1.8	.2	17	3.4
TOTAL	0	1	5	15	90	180	166	42	499	100.0
PCT	.0	.2	1.0	3.0	18.0	36.1	33.3	8.4		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0
	.9	.8	.2	.2	.0	.2	.0	.5	.0	.0
	4.4	1.1	.2	.3	.0	.3	1.0	2.6	.0	.0
	16.3	3.3	1.7	.7	1.2	3.3	4.2	8.6	.0	.4
	24.8	4.6	.4	.7	1.1	1.2	1.9	11.5	.0	.4
	1.6	.0	.2	.0	.1	.1	.0	1.4	.0	.0
	47.9	9.7	2.6	1.9	2.4	5.0	7.0	22.7	.0	.8

TABLE 15

MEANS,EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00E03	75	74	69	60	55	53	52	60.8	195
06E09	70	68	64	59	54	52	51	58.8	136
12E15	70	67	64	58	54	54	53	58.5	173
18E21	74	72	68	60	55	52	52	60.6	224
TOT	75	71	67	59	53	53	51	59.8	728

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00E03	.0	4.2	20.8	45.8	21.5	7.6	75	144
06E09	.0	3.8	14.3	40.0	29.5	12.4	78	105
12E15	.0	2.6	13.9	27.0	48.7	7.8	80	115
18E21	.0	5.7	21.3	29.8	36.2	7.1	77	141
TOT	0	21	91	181	169	43	77	505

PERIOD: (PRIMARY) 1932-1974
(OVER-ALL) 1870-1974

AREA 0031 SAN DIEGO 200 SW
29.5N 122.3W

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	49 52	53 56	57 60	61 64	65 68	69 72	73 76	TOT	W FOG	WO FOG
14/16	.0	.0	.0	.0	.0	.0	.2	1	.0	.2
11/13	.0	.0	.0	.0	.2	.0	.5	4	.0	.6
9/10	.0	.0	.0	.3	.2	1.1	.2	11	.0	1.7
7/8	.0	.0	.0	.0	.8	.6	.0	9	.0	1.4
6	.0	.0	.0	.2	1.1	.5	.0	11	.0	1.7
5	.0	.0	.2	.6	1.1	.3	.0	14	.2	2.0
4	.0	.2	1.3	1.9	1.3	.0	.0	29	.2	4.4
3	.0	.2	.6	1.9	.5	.2	.0	21	.2	3.1
2	.0	.2	.8	3.3	.6	.2	.0	32	.2	4.9
1	.0	.2	1.9	4.1	.5	.0	.0	42	.2	6.4
0	.3	.6	3.8	5.3	.5	.0	.0	80	.2	12.4
-1	.0	.8	7.0	3.1	.2	.0	.0	71	.5	10.6
-2	.0	2.8	7.5	2.3	.0	.0	.0	81	.3	12.4
-3	.0	2.7	9.2	.8	.0	.0	.0	81	.3	12.4
-4	.0	3.9	5.8	.6	.0	.0	.0	66	.0	10.3
-5	.3	3.1	3.3	.2	.0	.0	.0	44	.0	6.9
-6	.0	1.4	1.1	.0	.0	.0	.0	16	.0	2.5
-7/-8	.2	1.7	1.6	.3	.0	.0	.0	24	.0	3.8
-9/-10	.0	.2	.0	.0	.0	.0	.0	1	.0	.2
-11/-13	.2	.0	.0	.0	.0	.0	.0	1	.0	.2
TOTAL	6		294		43		5	639	13	626
PCT	.9	17.8	46.0	24.9	6.7	2.8	.8	100.0	2.0	98.0

PERIOD: (OVER-ALL) 1963-1974

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.4	3.2	.7	.0	.0	.0	4.2
1-2	.0	7.5	4.2	.0	.0	.0	11.6
3-4	.4	6.0	8.3	.7	.0	.0	15.4
5-6	.0	1.4	7.7	1.0	.0	.0	10.2
7	.0	.8	3.5	2.8	.0	.0	7.1
8-9	.0	.0	1.0	1.0	.0	.0	2.1
10-11	.0	.0	.8	.4	.0	.0	1.1
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.4	.0	.0	.0	.4
17-19	.0	.0	.0	.4	.0	.0	.4
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.8	18.9	26.5	6.3	.0	.0	52.5

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.6	.1	.0	.0	.0	.7
1-2	.0	1.9	1.8	.0	.0	.0	3.7
3-4	.0	.7	.1	.0	.0	.0	.8
5-6	.0	.0	1.5	.0	.0	.0	1.5
7	.0	.0	.1	.2	.0	.0	.3
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.4	.0	.0	.4
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	3.1	3.6	.6	.0	.0	7.3

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	.8	.0	.0	.0	.0	1.0
1-2	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.3	.0	.0	.0	.3
5-6	.0	.0	.3	.0	.0	.0	.3
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	.8	.6	.0	.0	.0	1.6

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	.4	.0	.0	.0	.0	.6
1-2	.0	.4	.4	.0	.0	.0	.8
3-4	.0	.8	.1	.0	.0	.0	.8
5-6	.0	.0	.1	.0	.0	.0	.1
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	1.5	.6	.0	.0	.0	2.3

PERIOD: (OVER-ALL) 1963-1974

MARCH

AREA 0031 SAN DIEGO 200 SW
29.5N 122.3W

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

S

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	.3	.0	.0	.0	.0	.6
1-2	.0	.3	.0	.0	.0	.0	.3
3-4	.0	.4	.0	.0	.0	.0	.4
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.3	.0	.0	.0	.3
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	.9	.3	.0	.0	.0	1.5

SW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.4	.5	.0	.0	.0	.0	.8
1-2	.0	1.2	.4	.0	.0	.0	1.6
3-4	.0	.5	.4	.0	.0	.0	.8
5-6	.0	.0	.5	.0	.0	.0	.5
7	.0	.0	.1	.0	.0	.0	.1
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.4	2.2	1.3	.0	.0	.0	3.9

W

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.3	3.0	.0	.0	.0	.0	3.3
3-4	.0	1.4	1.2	.0	.0	.0	2.6
5-6	.0	.0	.9	.0	.0	.0	.9
7	.0	.3	.0	.0	.0	.0	.3
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	4.7	2.2	.0	.0	.0	7.2

NW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	.0	.0	.0	.0	.0	.0	
1-2	.1	4.2	1.2	.0	.0	.0	5.6	
3-4	.0	4.6	1.7	.1	.0	.0	6.4	
5-6	.0	.5	3.7	.5	.0	.0	4.6	
7	.0	.1	1.7	1.9	.0	.0	3.7	
8-9	.0	.0	1.2	.1	.0	.0	1.3	
10-11	.0	.0	.0	.8	.0	.0	.8	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.4	.0	.0	.4	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.1	9.4	9.5	3.7	.0	.0	22.7	98.9

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	2.6	5.7	.8	.0	.0	.0	9.1	
1-2	.4	18.5	7.9	.0	.0	.0	26.8	
3-4	.4	14.3	12.1	.8	.0	.0	27.5	
5-6	.0	1.9	14.7	1.5	.0	.0	18.1	
7	.0	1.1	5.7	4.9	.0	.0	11.7	
8-9	.0	.0	2.3	1.1	.0	.0	3.4	
10-11	.0	.0	.8	1.5	.0	.0	2.3	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.4	.4	.0	.0	.8	
17-19	.0	.0	.0	.4	.0	.0	.4	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
								265
TOT PCT	3.4	41.5	44.5	10.6	.0	.0	100.0	

PERIOD: (OVER-ALL) 1949-1974

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	1.4	8.2	12.3	8.2	5.1	1.4	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	136	4
6-7	.0	2.9	5.1	6.5	5.3	3.4	2.9	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	111	6
8-9	.0	.0	2.7	2.2	5.3	5.1	1.0	1.0	.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	78	7
10-11	.0	.2	1.4	.5	1.0	1.9	1.0	1.4	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	38	8
12-13	.0	.0	.5	.5	.2	.2	1.0	.5	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	14	9
>13	.0	.0	.0	.2	.2	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	9	8
INDET	.5	1.2	.0	1.0	2.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	21	5
TOTAL	8	52	91	79	82	50	28	14	7	4	0	0	0	0	0	0	0	0	0	413	6
PCT	1.9	12.5	21.9	19.0	19.8	12.0	6.7	3.4	1.7	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

APRIL

PERIOD: (PRIMARY) 1945-1973
(OVER-ALL) 1858-1973

AREA 0031 SAN DIEGO 200 SW
29.5N 122.2W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	.0	.2	.7	.0	.0	.0	.0	.9	.7	.0	1.3	.0	.4		.2	96.4
NE	1.7	.0	1.7	.0	.0	.0	.0	3.3	1.7	1.7	1.7	.0	.4		.0	92.9
E	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7.5	.0		.0	92.5
SE	.0	.0	34.8	.0	.0	.0	.0	34.8	4.3	.0	.0	4.3	.0		.0	56.5
S	.0	7.4	18.0	.0	.0	.0	.0	20.4	5.6	.0	.0	11.1	.0		.0	62.0
SW	5.8	.0	1.0	.0	.0	.0	.0	6.7	5.8	1.0	.0	1.0	3.8		.0	88.7
W	2.4	.0	.0	.0	.0	.0	.0	2.4	1.6	1.2	1.8	.0	2.8		.0	90.6
NW	.3	.7	1.2	.0	.0	.0	.0	2.2	1.9	.0	.9	.0	1.4		.0	93.6
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	100.0
TOT PCT	.5	.4	1.3	.0	.0	.0	.0	2.3	1.4	.2	1.1	.3	1.0		.1	93.7
TOT OBS:	924															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00&03	.4	.4	.4	.0	.0	.0	.0	1.1	.4	.0	1.1	.4	.7		.0	96.4
06&09	.0	1.0	2.0	.0	.0	.0	.0	3.0	1.9	.8	1.8	.5	1.0		.0	92.0
12&15	.9	.5	2.3	.0	.0	.0	.0	3.6	1.4	.5	1.4	.5	.9		.0	92.3
18&21	.8	.4	.8	.0	.0	.0	.0	2.1	2.5	.0	1.0	.0	1.2		.4	92.2
TOT PCT	.5	.5	1.3	.0	.0	.0	.0	2.3	1.4	.2	1.4	.3	1.0		.1	93.4
TOT OBS:	938															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	.7	11.6	25.9	5.5	.1	.0		43.9	14.5	44.7	48.9	37.4	47.0	40.9	30.5	45.8	47.5
NE	.1	3.6	3.2	.4	.0	.0		7.3	11.6	3.5	9.6	6.5	6.1	5.7	12.3	6.7	12.1
E	.3	.7	.3	.1	.0	.0		1.4	8.4	2.0	2.1	2.8	.0	.6	.0	.5	1.3
SE	*	.5	*	.0	.0	.0		.6	6.6	.3	.0	.7	.0	1.0	.0	1.1	.0
S	.3	.8	.6	.0	.0	.0		1.7	9.5	1.5	.0	2.1	.0	2.4	1.0	1.6	2.1
SW	.3	.7	1.7	.0	.0	.0		2.7	12.7	3.6	.0	5.9	.8	1.3	1.0	2.0	1.7
W	.6	3.7	2.5	.2	.0	.0		7.0	10.6	8.0	7.4	8.0	5.3	7.2	1.0	6.3	7.3
NW	1.0	9.4	19.8	3.9	.0	.0		34.1	14.1	34.1	31.9	34.8	40.9	36.8	34.3	34.4	28.1
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.4							1.4	.0	.4	.0	1.8	.0	4.1	.0	1.6	.0
TOT OBS	47	310	543	102	1	0	1003		13.4	229	47	169	33	170	91	184	120
TOT PCT	4.7	30.9	54.1	10.2	.1	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	4.3	24.9	13.5	1.2	.0		43.9	14.5	45.4	39.0	43.1	46.5
NE	1.2	5.1	.9	.0	.0		7.3	11.6	6.2	6.4	7.2	8.8
E	.6	.7	.1	.0	.0		1.4	8.4	2.0	2.4	.5	.8
SE	.3	.3	.0	.0	.0		.6	6.6	.3	.6	.8	.7
S	.6	1.1	.0	.0	.0		1.7	9.5	1.3	1.7	2.0	1.8
SW	.4	1.7	.6	.0	.0		2.7	12.7	3.0	5.1	1.2	1.9
W	1.6	4.5	.7	.1	.0		7.0	10.6	7.9	7.5	5.8	6.7
NW	3.2	20.2	10.1	.7	.0		34.1	14.1	33.7	35.8	38.2	31.9
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	1.4						1.4	.0	.4	1.3	3.2	1.0
TOT OBS	135	587	261	20	0	1003		13.4	276	202	221	304
TOT PCT	13.5	58.5	26.0	2.0	.0		100.0		100.0	100.0	100.0	100.0

APRIL

PERIOD: (PRIMARY) 1945-1972
(OVER-ALL) 1858-1973

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	.4	4.0	29.0	55.1	11.6	.0	.0	13.8	100.0	276
06&09	1.5	2.5	31.2	55.0	9.9	.0	.0	13.3	100.0	202
12&15	3.2	.5	34.4	53.8	7.7	.5	.0	13.2	100.0	221
18&21	1.0	5.3	29.9	53.0	10.9	.0	.0	13.2	100.0	304
TOT	14	33	310	543	102	1	0	13.4		1003
PCT	1.4	3.3	30.9	54.1	10.2	.1	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	8.6	6.4	18.4	8.4		5.1
NE	1.4	.7	2.3	1.6		5.2
E	.3	.3	.7	.2		5.0
SE	.1	.0	.1	.6		6.9
S	.0	.0	1.0	.7		6.8
SW	1.0	.7	1.3	.6		4.4
W	1.8	1.1	2.9	1.4		4.7
NW	6.9	6.1	13.9	8.9		5.2
VAR	.0	.0	.0	.0		.0
CALM	.4	.0	.4	.9		6.1
TOT OBS	151	113	302	172	738	5.2
TOT PCT	20.5	15.3	40.9	23.3	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.4	.3	2.9	11.9	6.4	1.7	.6	.1	.0	17.5	
NE	.0	.1	.3	.1	1.9	.5	.1	*	.0	.0	2.8	
E	.0	.0	.1	.0	.3	.4	.0	.0	.0	.0	.7	
SE	.0	.0	.0	.4	.2	.0	.0	.0	.0	.0	.1	
S	.0	.0	.0	.7	.2	.1	.1	.0	.0	.0	.5	
SW	.0	.0	*	.5	.4	.3	.0	.0	.0	.0	2.3	
W	.0	.1	.3	.6	1.8	.3	.2	.0	.1	.0	3.6	
NW	.0	*	.5	2.8	9.3	7.7	.4	.3	.5	.3	14.0	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.1	.0	1.1	.0	.0	.0	.0	.0	.5	
TOT OBS	0	5	13	60	201	116	19	7	5	2	310	738
TOT PCT	.0	.7	1.8	8.1	27.2	15.7	2.6	.9	.7	.3	42.0	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM) * OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >50YD	* OR >0
* OR >6500	.5	.7	.9	.9	.9	.9	.9	.9
* OR >5000	1.3	1.6	1.9	1.9	1.9	1.9	1.9	1.9
* OR >3500	3.2	3.8	4.4	4.4	4.4	4.4	4.4	4.4
* OR >2000	19.9	19.4	20.1	20.1	20.2	20.2	20.2	20.2
* OR >1000	37.5	46.5	47.4	47.4	47.6	47.6	47.6	47.6
* OR >600	42.5	53.5	55.0	55.4	55.5	55.5	55.5	55.5
* OR >300	43.5	55.1	56.7	57.1	57.3	57.3	57.3	57.3
* OR >150	44.1	55.7	57.4	57.8	58.0	58.0	58.0	58.0
* OR > 0	44.1	55.7	57.4	57.8	58.0	58.0	58.0	58.0
TOTAL	327	413	426	429	430	430	430	430

TOTAL NUMBER OF OBS: 742

PCT FREQ NH <5/8: 42.0

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
7.3	5.5	11.9	10.3	7.3	8.4	12.6	17.1	19.4	.0	770

APRIL

PERIOD: (PRIMARY) 1945-1973
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AREA 0031 SAN DIEGO 200 SW
29.5N 122.2W

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
<1/2	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	NO PCP	.5	.1	.0	.0	.0	.0	.0	.2	.0	.0	.8	
	TOT %	.5	.1	.0	.0	.0	.0	.0	.2	.0	.0	.8	
	PCP	.0	.0	.0	.0	.1	*	.1	.0	.0	.0	.2	
1<2	NO PCP	.0	.0	.0	.0	.1	*	.0	.0	.0	.0	.1	
	TOT %	.0	.0	.0	.0	.2	.1	.1	.0	.0	.0	.3	
	PCP	.0	.1	.0	.1	.0	.1	.0	.1	.0	.0	.4	
2<5	NO PCP	.4	.1	.0	*	.1	.3	.1	.1	.0	.0	1.2	
	TOT %	.4	.2	.0	.1	.1	.4	.1	.2	.0	.0	1.6	
	PCP	.3	.1	.0	.1	.0	.1	.1	.4	.0	.0	1.1	
5<10	NO PCP	10.0	1.2	.3	*	.3	.2	1.4	8.3	.0	.0	21.7	
	TOT %	10.3	1.3	.3	.1	.3	.2	1.5	8.7	.0	.0	22.8	
	PCP	.1	.0	.0	.0	.2	.0	.0	.2	.0	.0	.5	
10+	NO PCP	32.6	4.9	1.1	.4	.7	2.1	5.2	25.5	.0	1.5	74.0	
	TOT %	32.6	4.9	1.1	.4	.9	2.1	5.2	25.8	.0	1.5	74.5	
	TOT OBS												923
	TOT PCT	43.9	6.5	1.4	.6	1.5	2.8	6.9	34.9	.0	1.5	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
<1/2	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	4-10	.3	.1	.0	.0	.0	.0	.0	.1	.0		.5	
	11-21	.1	.0	.0	.0	.0	.0	.0	.1	.0		.2	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.5	.1	.0	.0	.0	.0	.0	.2	.0	.0	.8	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	4-10	.0	.0	.0	.0	.2	.1	.1	.0	.0		.3	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.0	.2	.1	.1	.0	.0	.0	.3	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
2<5	4-10	.3	.1	.0	.1	.1	.1	.1	.0	.0		.9	
	11-21	.1	.1	.0	.0	.0	.3	.0	.2	.0		.8	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.4	.2	.0	.1	.1	.4	.1	.2	.0	.0	1.6	
	0-3	.2	.1	.1	*	.2	.1	.1	.1	.0	.0	.9	
5<10	4-10	3.2	.6	.2	.1	.0	.0	.6	3.1	.0		7.8	
	11-21	6.0	.6	.0	.0	.1	.1	.6	4.9	.0		12.3	
	22+	.9	.0	.0	.0	.0	.0	.1	.7	.0		1.7	
	TOT %	10.3	1.3	.3	.1	.3	.2	1.5	8.7	.0	.0	22.7	
	0-3	.5	.1	.2	.0	.1	.2	.4	.6	.0	1.5	3.6	
10+	4-10	6.8	2.5	.5	.3	.5	.5	2.6	6.5	.0		20.2	
	11-21	20.4	2.0	.3	*	.5	1.5	2.1	15.3	.0		42.1	
	22+	4.8	.3	.1	.0	.0	.0	.1	3.4	.0		8.7	
	TOT %	32.5	4.9	1.1	.4	1.1	2.1	5.2	25.8	.0	1.5	74.6	
	TOT OBS												926
	TOT PCT	43.7	6.5	1.4	.6	1.7	2.8	6.9	34.9	.0	1.5	100.0	

APRIL

PERIOD: (PRIMARY) 1945-1973
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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00&03	.0	.5	1.4	8.1	23.9	14.9	2.7	1.4	.9	.0	53.6	46.4	222
06&09	.0	.0	1.8	8.5	20.6	16.4	2.4	1.2	1.2	.6	52.7	47.3	165
12&15	.0	.6	1.2	6.7	33.5	15.2	1.2	.0	.6	.0	59.1	40.9	164
18&21	.0	1.4	2.4	8.2	29.5	15.5	3.4	1.0	.0	.5	61.8	38.2	207
TOT	0	5	13	60	203	117	19	7	5	2	431	327	758
PCT	.0	.7	1.7	7.9	26.8	15.4	2.5	.9	.7	.3	56.9	43.1	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00&03	.0	1.1	.4	.7	19.7	78.1	274
06&09	.0	1.0	.5	3.0	23.2	72.4	203
12&15	.0	.9	.5	1.8	31.4	65.5	220
18&21	.0	.4	.0	1.2	18.9	79.4	243
TOT	0	8	3	15	216	698	940
PCT	.0	.9	.3	1.6	23.0	74.3	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET, NH >4/8), BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	.0	1.8	10.0	43.6	46.4	220
06&09	.0	2.4	13.4	40.2	46.3	164
12&15	.0	1.9	9.6	52.6	37.8	156
18&21	.0	4.0	13.4	50.0	36.6	202
TOT	0	19	86	345	311	742
PCT	.0	2.6	11.6	46.5	41.9	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
75/79	.0	.0	.0	.1	.0	.0	.0	.0	1	.1
70/74	.0	.0	.1	.3	.0	.0	.0	.0	3	.4
65/69	.0	.0	.1	.7	1.6	1.8	2.2	.3	49	6.7
60/64	.0	.0	.1	2.3	7.1	14.8	11.5	3.0	284	38.8
55/59	.0	.0	.0	2.5	9.8	20.1	14.5	4.8	378	51.6
50/54	.0	.0	.0	.1	.3	.3	1.2	.4	17	2.3
TOTAL	0	0	3	44	138	270	215	62	732	100.0
PCT	.0	.0	.4	6.0	18.9	36.9	29.4	8.5		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
	.1	.0	.0	.0	.0	.0	.0	*	.0	.0
	.0	.0	.0	.0	.0	.0	.1	.3	.0	.0
	1.7	.8	.3	.1	.1	.2	.6	2.7	.0	.1
	17.5	2.0	.5	.4	.6	1.5	2.4	13.3	.0	.5
	22.6	3.4	.7	.0	.6	1.2	3.4	18.7	.0	1.1
	.6	.2	.2	.0	.0	.0	.3	.8	.0	.1
	42.5	6.5	1.7	.6	1.4	2.9	6.8	35.8	.0	1.9

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00&03	75	70	66	61	56	54	51	60.9	275
06&09	76	68	63	58	55	54	51	58.6	200
12&15	76	66	63	58	55	52	51	58.3	225
18&21	74	69	66	61	56	54	54	60.7	305
TOT	76	69	65	59	55	54	51	59.8	1005

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00&03	.0	10.1	19.7	36.1	26.9	7.2	75	208
06&09	.0	4.3	13.0	43.5	29.2	9.9	78	161
12&15	.0	3.0	17.9	36.9	30.4	11.9	78	168
18&21	.0	7.6	23.7	31.8	30.8	6.1	75	198
TOT	0	48	139	270	215	63	76	735

PERIOD: (PRIMARY) 1945-1973
(OVER-ALL) 1858-1973

AREA 0031 SAN DIEGO 200 SW
29.5N 122.2W

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	49 52	53 56	57 60	61 64	65 68	69 72	73 76	TOT	W FOG	WO FOG
9/10	.0	.0	.0	.0	.0	.2	.1	3	.0	.3
7/8	.0	.0	.0	.1	1.2	.2	.0	14	.0	1.6
6	.0	.0	.0	.6	.7	.1	.0	12	.0	1.3
5	.0	.0	.0	1.2	1.0	.0	.0	20	.0	2.2
4	.0	.0	.2	1.4	.4	.1	.0	20	.2	2.0
3	.0	.1	.1	2.0	.3	.0	.0	23	.0	2.6
2	.0	.0	1.7	4.0	.8	.0	.0	58	.0	6.5
1	.1	.0	2.1	4.8	.3	.0	.1	67	.0	7.5
0	.0	.1	5.7	5.4	.4	.0	.0	104	.2	11.4
-1	.0	.2	8.9	2.8	.2	.0	.0	109	.1	12.0
-2	.0	1.6	10.3	2.1	.0	.0	.0	125	.2	13.7
-3	.0	1.8	8.5	1.3	.0	.0	.0	104	.1	11.5
-4	.0	3.1	6.5	.7	.2	.0	.0	94	.1	10.4
-5	.0	2.0	3.8	.3	.0	.0	.0	55	.2	5.9
-6	.2	2.5	1.6	.2	.0	.0	.0	40	.0	4.5
-7/-8	.0	1.7	1.9	.3	.0	.0	.0	35	.0	3.9
-9/-10	.1	.3	.6	.4	.0	.0	.0	13	.0	1.4
-11/-13	.0	.1	.0	.0	.0	.0	.0	1	.0	.1
TOTAL	4	121	464	249	51	6	2	897	11	886
PCT	.4	13.5	51.7	27.8	5.7	.7	.2	100.0	1.2	98.8

PERIOD: (OVER-ALL) 1963-1973

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.5	.0	.0	.0	.0	.5
1-2	.0	5.3	2.7	.0	.0	.0	8.0
3-4	.5	2.0	12.8	.6	.0	.0	15.9
5-6	.0	.3	6.8	1.0	.0	.0	8.0
7	.0	.0	1.7	2.0	.0	.0	3.7
8-9	.0	.2	1.4	.0	.0	.0	1.6
10-11	.0	.0	.9	1.3	.0	.0	1.7
12	.0	.0	.5	.0	.0	.0	.5
13-16	.0	.0	.0	.6	.0	.0	.6
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.5	8.3	26.3	5.5	.0	.0	40.5

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.6	.0	.0	.0	.0	1.6
1-2	.0	1.6	1.0	.0	.0	.0	2.6
3-4	.2	.8	.4	.0	.0	.0	1.3
5-6	.0	.3	.7	.5	.0	.0	1.4
7	.0	.0	.4	.1	.0	.0	.5
8-9	.0	.0	.1	.3	.0	.0	.4
10-11	.0	.0	.3	.0	.0	.0	.3
12	.0	.0	.1	.0	.0	.0	.1
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	4.2	2.9	.8	.0	.0	8.0

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	.5	.0	.0	.0	.0	.8
1-2	.3	.3	.0	.0	.0	.0	.6
3-4	.0	.6	.0	.0	.0	.0	.6
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.3	.0	.0	.3
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.6	1.4	.0	.3	.0	.0	2.3

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.0	.0	.0	.0	.0	.1
1-2	.0	.6	.0	.0	.0	.0	.6
3-4	.0	.3	.0	.0	.0	.0	.3
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.1	.9	.0	.0	.0	.0	1.0

PERIOD: (OVER-ALL) 1963-1973

APRIL

AREA 0031 SAN DIEGO 200 SW
29.5N 122.2W

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

	S							SW						
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	.0	.0	.0	.0	.0	.2	.1	.1	.0	.0	.0	.0	.2
1-2	.0	.0	.0	.0	.0	.0	.0	.0	.4	.3	.0	.0	.0	.7
3-4	.0	.2	.6	.0	.0	.0	.8	.0	.5	.9	.0	.0	.0	1.4
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.9	.0	.0	.0	.9
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.0	.0	.0	.3
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	.2	.6	.0	.0	.0	1.1	.1	.9	2.4	.0	.0	.0	3.4

	W							NW							TOTAL
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	1.-21	22-33	34-47	48+	PCT	PCT
<1	.2	1.1	.0	.0	.0	.0	1.3	.9	1.1	.0	.0	.0	.0	2.0	
1-2	.0	1.0	.3	.0	.0	.0	1.3	.3	5.0	3.2	.0	.0	.0	8.6	
3-4	.0	1.4	2.0	.0	.0	.0	3.5	.0	1.1	6.1	.0	.0	.0	7.2	
5-6	.0	.8	.8	.0	.0	.0	1.7	.3	1.6	5.3	1.0	.0	.0	8.1	
7	.0	.6	.5	.0	.0	.0	1.1	.0	.0	2.3	.3	.0	.0	2.6	
8-9	.0	.3	.0	.0	.0	.0	.3	.0	.1	1.0	.3	.0	.0	1.4	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.8	.0	.0	1.0	
12	.0	.0	.2	.0	.0	.0	.2	.0	.0	.1	.0	.0	.0	.1	
13-16	.0	.0	.0	.2	.0	.0	.2	.0	.0	.3	.1	.0	.0	.4	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.2	5.2	3.9	.2	.0	.0	9.5	1.5	8.9	18.3	2.5	.0	.0	31.2	97.0

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	4.5	4.8	.0	.0	.0	.0	9.3	
1-2	.9	14.1	7.5	.0	.0	.0	22.5	
3-4	.6	6.9	22.8	.6	.0	.0	30.9	
5-6	.3	3.0	14.4	2.4	.0	.0	20.1	
7	.0	.6	4.8	2.7	.0	.0	8.1	
8-9	.0	.6	2.7	.6	.0	.0	3.9	
10-11	.0	.0	.9	2.1	.0	.0	3.0	
12	.0	.0	.9	.0	.0	.0	.9	
13-16	.0	.0	.3	.9	.0	.0	1.2	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	6.3	30.0	54.4	9.3	.0	.0	100.0	333

PERIOD: (OVER-ALL) 1949-1973

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	1.2	2.7	10.8	5.9	4.1	1.5	1.0	.7	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	192	5
6-7	.0	2.1	9.2	12.1	8.3	3.8	1.5	1.3	1.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	267	6
8-9	.0	.4	1.8	3.1	4.4	4.7	1.9	.7	1.9	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	130	8
10-11	.0	.7	.3	1.2	1.0	1.5	.6	.3	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	42	7
12-13	.0	.0	.3	.3	.9	.3	.4	.1	.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	19	8
>13	.0	.0	.0	.3	.3	.7	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	11	8
INDET	.4	.6	.6	.1	.1	.3	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	16	4
TOTAL	11	44	155	156	130	87	39	23	30	2	0	0	0	0	0	0	0	0	0	677	6
PCT	1.6	6.5	22.9	23.0	19.2	12.9	5.8	3.4	4.4	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

MAY

PERIOD: (PRIMARY) 1952-1974
(OVER-ALL) 1873-1974

AREA 0031 SAN DIEGO 200 SW
29.6N 122.5W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	.3	.8	.4	.0	.0	.0	.0	1.6	.5	.0	1.1	.0	.7	.0		96.2
NE	.0	.0	.0	.0	.0	.0	.0	.0	3.0	.0	.0	.0	.0	.0		97.0
E	12.1	.0	12.1	.0	.0	.0	.0	12.1	.0	.0	.0	.0	.0	.0		87.9
SE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		100.0
S	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		100.0
SW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.4	.0	.0	.0		95.6
W	1.3	4.5	1.0	.0	.0	.0	.0	6.7	.0	1.3	.0	.0	.0	.0		93.3
NW	.0	2.2	.7	.0	.0	.0	.0	2.9	.5	.0	.9	.0	.3	.0		95.5
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	14.3	.0		85.7
TOT PCT	.3	1.5	.6	.0	.0	.0	.0	2.3	.5	.1	.9	.0	.5	.0		95.7
TOT OBS:	1158															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00&03	.0	1.5	.3	.0	.0	.0	.0	1.8	.3	.0	1.2	.0	.3	.0		96.5
06&09	1.1	.8	.8	.0	.0	.0	.0	2.3	.8	.0	.0	.0	.4	.0		96.6
12&15	.0	2.3	.4	.0	.0	.0	.0	2.7	.4	.0	.8	.0	.8	.0		95.3
18&21	.3	1.3	1.0	.0	.0	.0	.0	2.7	.7	.3	1.7	.0	.7	.0		94.3
TOT PCT	.3	1.5	.6	.0	.0	.0	.0	2.3	.5	.1	.9	.0	.5	.0		95.7
TOT OBS:	1161															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	.4	12.4	31.5	4.8	.1	.0		49.2	14.6	52.8	54.4	45.9	56.6	48.7	43.9	47.7	48.7
NE	.2	1.3	2.1	.2	.0	.0		3.7	11.7	2.9	1.1	3.8	5.3	5.0	4.4	3.1	5.4
E	.2	.1	.3	*	.0	.0		.7	10.2	.9	.0	.8	.0	.7	.0	.5	1.6
SE	*	.2	.1	.0	.0	.0		.4	9.9	.5	.0	.4	.0	.5	1.1	.0	.5
S	.2	.4	.4	.0	.0	.0		1.1	8.6	.9	.0	.2	1.3	1.6	1.1	.8	3.2
SW	.1	1.5	.6	.0	.0	.0		2.1	9.3	1.8	4.4	1.3	3.9	.5	2.2	3.1	4.8
W	.2	3.2	3.2	.3	.0	.0		6.9	11.0	5.8	6.7	8.4	9.2	4.1	7.8	7.2	10.8
NW	.3	10.2	22.1	2.5	.1	.0		35.2	14.0	33.4	33.3	38.4	23.7	38.4	39.4	37.2	23.9
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.7							.7	.0	1.0	.0	.9	.0	.5	.0	.4	1.1
TOT OBS	29	356	731	95	3	0	1214		13.7	295	45	232	38	214	45	252	93
TOT PCT	2.4	29.3	60.2	7.8	.2	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	3.8	27.0	18.0	.4	.0		49.2	14.6	53.0	47.4	47.9	48.0
NE	.9	2.1	.7	.0	.0		3.7	11.7	2.6	4.0	4.9	3.7
E	.2	.4	.1	.0	.0		.7	10.2	.8	.6	.6	.8
SE	.2	.1	.1	.0	.0		.4	9.9	.4	.4	.6	.1
S	.4	.6	*	.0	.0		1.1	8.6	.8	.4	1.5	1.4
SW	.6	1.3	.2	.0	.0		2.1	9.3	2.1	1.7	.8	3.6
W	1.3	4.8	.7	.0	.0		6.9	11.0	5.9	8.5	4.7	8.2
NW	2.6	21.2	10.7	.7	.0		35.2	14.0	33.4	36.3	38.6	33.6
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	.7						.7	.0	.9	.7	.4	.6
TOT OBS	130	699	372	13	0	1214		13.7	340	270	259	345
TOT PCT	10.7	57.6	30.6	1.1	.0		100.0		100.0	100.0	100.0	100.0

MAY

PERIOD: (PRIMARY) 1952-1974
(OVER-ALL) 1873-1974

AREA 0031 SAN DIEGO 200 SW
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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	.9	2.6	27.1	61.8	7.4	.3	.0	13.9	100.0	340
06&09	.7	1.1	31.1	59.6	7.0	.4	.0	13.8	100.0	270
12&15	.4	.4	30.5	59.5	8.9	.4	.0	14.0	100.0	259
18&21	.6	2.3	29.3	59.7	8.1	.0	.0	13.4	100.0	345
TOT	8	21	356	731	95	3	0	13.7		1214
PCT	.7	1.7	29.3	60.2	7.8	.2	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	6.9	6.5	18.1	16.5		5.7
NE	.5	.4	1.4	1.3		5.8
E	.0	.1	.0	.4		7.2
SE	.1	.2	.1	*		4.0
S	.1	.5	.2	.3		4.9
SW	.3	.4	.8	.5		5.3
W	1.7	.6	2.7	2.4		5.3
NW	6.0	3.9	11.5	14.9		5.8
VAR	.0	.0	.0	.0		.0
CALM	.1	.0	.1	.4		6.6
TOT OBS	149	119	331	348	947	5.7
TOT PCT	15.7	12.6	35.0	36.7	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4,999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.2	.1	.7	2.7	14.3	10.9	2.8	.2	.2	.0	15.7	
NE	.0	.0	.0	.2	1.6	.5	.1	.2	.1	.0	1.1	
E	.0	.0	.1	.0	.0	.2	.0	.1	.0	.0	.1	
SE	.0	.0	.0	.0	.0	*	.0	.0	.0	.0	.4	
S	.0	.0	.0	.0	.2	.3	.0	.0	.0	.0	.6	
SW	.0	.0	.1	.1	.8	.1	.0	.0	.1	.0	.9	
W	.0	.0	.0	.5	2.5	.6	.4	.1	.0	.0	3.2	
NW	.1	.2	1.1	2.6	10.1	7.4	2.3	.3	.6	.0	11.6	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.1	.1	.2	.1	.0	.0	.0	.0	.1	
TOT OBS	3	3	20	59	282	191	53	8	9	0	319	947
TOT PCT	.3	.3	2.1	6.2	29.8	20.2	5.6	.8	1.0	.0	33.7	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM) * OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >50YD	* OR >0
* OR >6500	.5	.9	.9	.9	.9	.9	.9	.9
* OR >5000	1.1	1.8	1.8	1.8	1.8	1.8	1.8	1.8
* OR >3500	5.6	7.4	7.4	7.4	7.4	7.4	7.4	7.4
* OR >2000	21.6	27.6	27.6	27.6	27.6	27.6	27.6	27.6
* OR >1000	44.3	57.2	57.4	57.4	57.4	57.4	57.4	57.4
* OR >600	48.8	63.1	63.6	63.6	63.6	63.6	63.6	63.6
* OR >300	50.5	65.2	65.7	65.7	65.7	65.7	65.7	65.7
* OR >150	50.7	65.4	66.0	66.0	66.0	66.0	66.0	66.0
* OR > 0	50.7	65.6	66.2	66.2	66.2	66.2	66.4	66.4
TOTAL	481	622	628	628	628	628	629	629

TOTAL NUMBER OF OBS: 948 PCT FREQ NH <5/8: 33.6

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
5.5	5.6	9.9	7.7	5.1	7.2	11.9	15.3	31.8	.2	970

PERIOD: (PRIMARY) 1952-1974
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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.1	.0	.0	.0	.0	.0	.0	*	.0	.0	.1	
	TOT %	.1	.0	.0	.0	.0	.0	.0	*	.0	.0	.1	
1/2<1	PCP	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	
	NO PCP	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	
	TOT %	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	
1<2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
2<5	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.5	.0	.0	.0	.0	.1	.0	.2	.0	.1	.9	
	TOT %	.5	.0	.0	.0	.0	.1	.0	.2	.0	.1	.9	
5<10	PCP	.4	.0	.1	.0	.0	.0	.1	.5	.0	.0	1.0	
	NO PCP	19.0	.6	.2	.2	.2	.5	1.4	9.0	.0	.2	27.5	
	TOT %	19.4	.6	.3	.2	.2	.5	1.5	9.5	.0	.2	28.5	
10+	PCP	.2	.0	.0	.0	.0	.0	.4	.5	.0	.0	1.1	
	NO PCP	32.9	3.0	.4	.1	.8	1.3	4.9	25.2	.0	.3	69.0	
	TOT %	33.1	3.0	.4	.1	.8	1.3	5.3	25.8	.0	.3	70.1	
TOT OBS													1158
TOT PCT		49.5	3.6	.7	.3	1.0	1.9	6.8	35.5	.0	.6	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.1	.0	.0	.0	.0	.0	.0	*	.0		.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.1	.0	.0	.0	.0	.0	.0	*	.0	.0	.1	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.3	.0	.0	.0	.0	.0	.0	.0	.0		.3	
	11-21	.2	.0	.0	.0	.0	.0	.0	.0	.0		.2	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	
	4-10	.0	.0	.0	.0	.0	.1	.0	.0	.0		.1	
	11-21	.4	.0	.0	.0	.0	.0	.0	.2	.0		.7	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.4	.0	.0	.0	.0	.1	.0	.2	.0	.1	.9	
5<10	0-3	.0	*	.1	.0	.0	.0	.0	.0	.0	.2	.3	
	4-10	3.4	*	*	.1	.0	.2	.5	2.2	.0		6.5	
	11-21	11.2	.6	.1	.1	.2	.3	1.0	6.6	.0		20.1	
	22+	.8	.0	.0	.0	.0	.0	.0	.7	.0		1.5	
	TOT %	15.4	.6	.3	.2	.2	.5	1.5	9.5	.0	.2	28.4	
10+	0-3	.4	.2	.1	*	.2	*	.1	.2	.0	.3	1.6	
	4-10	8.8	1.3	.1	.1	.3	1.1	2.6	7.7	.0		22.1	
	11-21	19.5	1.3	.2	.0	.2	.3	2.3	15.8	.0		39.7	
	22+	4.3	.1	.0	.0	.0	.0	.3	2.1	.0		6.8	
	TOT %	33.1	2.9	.4	.1	.7	1.4	5.4	25.8	.0	.3	70.2	
TOT OBS													1167
TOT PCT		49.4	3.6	.7	.3	1.0	2.0	6.9	35.5	.0	.6	100.0	

MAY

PERIOD: (PRIMARY) 1952-1974
(OVER-ALL) 1873-1974

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29.6N 122.5W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET,NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00&03	.0	.0	1.8	7.1	27.3	20.9	4.6	1.1	.4	.0	63.1	36.9	282
06&09	.5	.5	1.4	4.1	29.3	19.8	4.5	.9	1.4	.0	62.2	37.8	222
12&15	.0	.0	2.6	4.8	35.4	18.5	5.3	.5	.0	.0	67.2	32.8	189
18&21	.8	.8	2.7	8.0	27.8	20.5	7.6	.8	1.9	.0	70.7	29.3	263
TOT	3	3	20	59	282	192	53	8	9	0	629	327	956
PCT	.3	.3	2.1	6.2	29.5	20.1	5.5	.8	.9	.0	65.8	34.2	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00&03	.0	.3	.0	.6	24.1	75.0	340
06&09	.0	.4	.0	1.5	28.8	69.4	271
12&15	.0	.8	.0	.4	36.8	62.0	258
18&21	.3	.3	.0	1.0	25.6	72.8	301
TOT	1	5	0	10	332	822	1170
PCT	.1	.4	.0	.9	28.4	70.3	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET,NH >4/8),BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	.0	1.8	8.9	54.6	36.4	280
06&09	.5	2.3	8.2	56.2	35.6	219
12&15	.0	2.7	8.0	59.9	32.1	187
18&21	.8	4.2	12.2	58.8	29.0	262
TOT	3	26	90	542	316	948
PCT	.3	2.7	9.5	57.2	33.3	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
75/79	.0	.0	.0	.0	.0	.1	.0	.0	1	.1
70/74	.0	.0	.0	.2	.5	.3	.2	.0	12	1.3
65/69	.0	.0	.0	.4	2.5	3.5	1.9	.8	87	9.2
60/64	.0	.0	.0	.3	9.3	25.8	16.9	3.8	531	56.2
55/59	.0	.0	.0	.3	2.5	11.7	13.9	4.7	313	33.1
50/54	.0	.0	.0	.0	.0	.1	.0	.0	1	.1
TOTAL	0	0	0	12	141	392	312	88	945	100.0
PCT	.0	.0	.0	1.3	14.9	41.5	33.0	9.3		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.0	.0	.0	.0	.1	*	.0	.0
.7	.1	.0	.1	.0	.0	.1	.3	.0	.0
3.4	.3	.1	*	.3	.3	1.4	2.7	.0	.1
26.8	1.9	.7	.1	.6	1.2	4.7	19.9	.0	.3
15.9	1.4	.1	.2	.1	.4	1.5	13.6	.0	.1
.1	.0	.0	.0	.0	.0	.0	.1	.0	.0
47.4	3.8	.8	.4	.9	1.9	7.8	36.6	.0	.5

TABLE 15

MEANS,EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00&03	80	73	68	62	58	56	55	62.5	340
06&09	67	65	63	60	57	55	55	59.8	271
12&15	69	65	63	59	56	55	54	59.3	259
18&21	78	72	66	61	57	56	56	61.6	339
TOT	80	70	66	61	57	55	54	61.0	1209

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00&03	.0	1.8	21.3	46.7	25.7	4.4	76	272
06&09	.0	.9	10.0	36.2	40.2	12.7	80	229
12&15	.0	1.5	8.7	36.2	38.3	15.3	81	196
18&21	.0	.8	17.3	45.0	30.1	6.8	77	249
TOT	0	12	141	393	312	88	78	946

PERIOD: (PRIMARY) 1952-1974
(OVER-ALL) 1873-1974

AREA 0031 SAN DIEGO 200 SW
29.6N 122.9W

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	53 56	57 60	61 64	65 68	69 72	73 76	77 80	TOT	W FOG	WO FOG
14/16	.0	.0	.0	.0	.1	.0	.0	1	.0	.1
11/13	.0	.0	.1	.0	.2	.0	.0	3	.0	.3
9/10	.0	.0	.0	.2	.2	.2	.0	6	.0	.5
7/8	.0	.1	.1	.8	.4	.1	.0	16	.0	1.4
6	.0	.3	.2	.5	.0	.0	.0	11	.0	1.0
5	.0	.1	.6	1.4	.2	.0	.1	26	.2	2.2
4	.0	.1	1.0	1.0	.1	.0	.0	24	.0	2.2
3	.0	.5	1.3	.6	.0	.0	.0	26	.0	2.3
2	.0	.9	5.0	1.4	.1	.0	.0	82	.0	7.4
1	.2	1.7	5.3	1.1	.1	.0	.0	93	.0	8.4
0	.2	4.1	7.7	.8	.1	.0	.0	144	.0	13.0
-1	.2	8.0	6.5	.1	.0	.0	.0	164	.1	14.7
-2	.5	10.8	6.1	.0	.1	.0	.0	194	.2	17.3
-3	.5	8.5	3.1	.0	.0	.0	.0	134	.1	12.0
-4	.9	6.6	1.4	.0	.0	.0	.0	98	.1	8.7
-5	.2	2.7	.7	.1	.0	.0	.0	41	.0	3.7
-6	.6	1.4	.2	.0	.0	.0	.0	24	.0	2.2
-7/-8	.2	1.0	.2	.1	.0	.0	.0	16	.1	1.4
-9/-10	.0	.5	.0	.0	.0	.0	.0	6	.0	.5
-11/-13	.0	.1	.1	.0	.0	.0	.0	2	.0	.2
TOTAL	38	525	439	89	16	3	1	1111	8	1103
PCT	3.4	47.3	39.5	8.0	1.4	.3	.1	100.0	.7	99.3

PERIOD: (OVER-ALL) 1963-1974

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	1.5	.0	.0	.0	.0	1.7
1-2	.2	9.1	4.6	.0	.0	.0	13.9
3-4	.0	4.5	11.0	.5	.0	.0	16.0
5-6	.0	.6	7.5	2.6	.0	.0	10.7
7	.0	.5	3.8	.8	.0	.0	5.1
8-9	.0	.0	1.2	1.2	.0	.0	2.4
10-11	.0	.0	.4	.2	.0	.0	.6
12	.0	.0	.2	.4	.0	.0	.5
13-16	.0	.0	.3	.0	.0	.0	.3
17-19	.0	.0	.0	.2	.0	.0	.2
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.4	16.2	29.0	5.9	.0	.0	51.6

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.3	.0	.0	.0	.0	.3
1-2	.0	.7	.4	.0	.0	.0	1.1
3-4	.0	.6	1.2	.0	.0	.0	1.8
5-6	.0	.1	.6	.0	.0	.0	.7
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	1.7	2.2	.0	.0	.0	3.9

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.4	.0	.0	.0	.4
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.0	.4	.0	.0	.0	.4

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.0	.0	.0	.0	.0	.0

PERIOD: (OVER-ALL) 1963-1974

MAY

AREA 0031 SAN DIEGO 200 SW
29.6N 122.5W

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

S

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.2	.0	.0	.0	.2
3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.0	.2	.0	.0	.0	.2

SW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.2	.0	.0	.0	.0	.2
1-2	.0	.1	.2	.0	.0	.0	.3
3-4	.0	.2	.0	.0	.0	.0	.2
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.5	.2	.0	.0	.0	.7

W

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.3	.0	.0	.0	.0	.3
1-2	.2	.9	.4	.0	.0	.0	1.5
3-4	.0	1.1	.9	.0	.0	.0	2.0
5-6	.0	.0	.2	.0	.0	.0	.2
7	.0	.0	.4	.2	.0	.0	.6
8-9	.0	.0	.2	.0	.0	.0	.2
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	2.4	2.0	.2	.0	.0	4.7

NW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.2	1.6	.0	.0	.0	.0	1.8	
1-2	.1	5.2	4.3	.0	.0	.0	9.5	
3-4	.0	3.7	10.4	.3	.0	.0	14.5	
5-6	.0	1.0	3.4	.5	.0	.0	4.8	
7	.0	.6	3.1	.9	.0	.0	4.5	
8-9	.0	.2	.7	.3	.0	.0	1.1	
10-11	.0	.0	.0	.6	.0	.0	.6	
12	.0	.0	.1	.1	.0	.0	.1	
13-16	.0	.0	.3	.0	.0	.0	.3	
17-19	.0	.0	.0	.2	.0	.0	.2	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.3	12.3	22.2	2.8	.0	.0	37.6	99.0

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	1.5	3.9	.0	.0	.0	.0	5.4	
1-2	.4	16.0	10.2	.0	.0	.0	26.6	
3-4	.0	10.2	23.9	.8	.0	.0	34.9	
5-6	.0	1.7	11.6	3.1	.0	.0	16.4	
7	.0	1.0	7.3	1.9	.0	.0	10.2	
8-9	.0	.2	2.1	1.5	.0	.0	3.7	
10-11	.0	.0	.4	.8	.0	.0	1.2	
12	.0	.0	.2	.4	.0	.0	.6	
13-16	.0	.0	.6	.0	.0	.0	.6	
17-19	.0	.0	.0	.4	.0	.0	.4	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	1.9	33.0	56.2	8.9	.0	.0	100.0	482

PERIOD: (OVER-ALL) 1950-1974

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	1.3	5.8	17.4	8.2	3.5	.3	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	320	4
6-7	.1	1.3	5.1	8.5	6.5	2.8	2.1	.6	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	235	6
8-9	.1	.2	3.6	5.5	4.1	3.0	2.9	1.3	.5	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	184	7
10-11	.0	.1	.5	.5	1.4	1.5	.8	1.2	.7	.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	61	9
12-13	.0	.0	.0	.6	.6	.9	.2	.1	.6	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	27	9
>13	.0	.0	.0	.0	.3	.2	.1	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	8	9
INDET	.2	.6	.9	.8	.1	.1	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	26	4
TOTAL	15	69	237	207	142	77	59	28	17	8	2	0	0	0	0	0	0	0	0	861	6
PCT	1.7	8.0	27.5	24.0	16.5	8.9	6.9	3.3	2.0	.9	.2	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1955-1973
(OVER-ALL) 1875-1973

AREA 0031 SAN DIEGO 200 SW
29.6N 122.9W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	.3	1.0	2.6	.0	.0	.0	.0	3.9	.6	.0	2.1	.0	.8		.0	92.5
NE	.4	.8	2.3	.0	.0	.0	.0	3.5	3.9	.0	3.9	.0	.4		.0	88.4
E	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	100.0
SE	.0	.0	.0	.0	.0	.0	.0	.0	66.7	.0	.0	.0	.0		.0	33.3
S	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	100.0
SW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	100.0
W	.0	.0	1.4	.0	.0	.0	.0	1.4	1.4	.0	.9	.0	1.4		.0	95.0
NW	.0	.6	1.3	.0	.0	.0	.0	1.9	.8	.0	3.2	.0	1.1		.0	93.1
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	14.3	.0	.0	.0	.0		.0	85.7
TOT PCT	.2	.8	2.0	.0	.0	.0	.0	2.9	1.1	.0	2.5	.0	.9		.0	92.6
TOT OBS: 1125																

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00&03	.0	.3	.9	.0	.0	.0	.0	1.3	.3	.0	1.3	.0	1.3		.0	95.9
06&09	.0	.8	2.8	.0	.0	.0	.0	3.6	1.2	.0	1.6	.0	.0		.0	93.7
12&15	.7	1.1	3.6	.0	.0	.0	.0	5.5	1.1	.0	4.4	.0	1.1		.0	88.0
18&21	.0	1.0	.7	.0	.0	.0	.0	1.7	1.7	.0	2.8	.0	1.0		.0	92.7
TOT PCT	.2	.8	1.9	.0	.0	.0	.0	2.9	1.1	.0	2.5	.0	.9		.0	92.7
TOT OBS: 1136																

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	.5	15.8	30.4	4.5	.0	.0		51.2	13.6	52.0	39.9	52.4	37.9	47.5	59.5	51.3	59.3
NE	*	2.4	3.3	.1	.0	.0		5.9	12.6	4.8	4.1	6.8	3.2	9.7	3.2	3.2	8.3
E	.0	.2	.2	.0	.0	.0		.4	9.6	.4	.0	.7	.0	.0	.0	.9	.0
SE	.0	.1	*	.0	.0	.0		.1	8.1	.0	.0	.0	.0	.0	.0	.6	.0
S	.0	.2	.1	.0	.0	.0		.3	10.1	.0	.0	.3	.0	.4	.0	.7	.0
SW	.3	.8	.2	.0	.0	.0		1.3	7.6	.8	2.7	2.4	3.2	.9	.0	1.4	.0
W	.3	3.5	.9	.1	.0	.0		4.7	8.4	5.8	7.4	2.1	8.1	5.4	1.8	6.5	.0
NW	.5	13.7	19.6	1.7	.0	.0		35.5	12.5	36.2	45.9	33.6	47.6	35.2	35.5	34.5	32.4
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.7							.7	.0	.0	.0	1.8	.0	.9	.0	.8	.0
TOT OBS	27	427	638	75	0	0	1167		12.7	281	37	222	31	224	55	239	78
TOT PCT	2.3	36.6	54.7	6.4	.0	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	4.2	34.0	12.5	.5	.0		51.2	13.6	50.6	50.6	49.9	53.2
NE	.7	3.8	1.3	*	.0		5.9	12.6	4.7	6.3	8.4	4.5
E	.1	.2	.1	.0	.0		.4	9.6	.3	.6	.0	.7
SE	.1	*	*	.0	.0		.1	8.1	.0	.0	.0	.5
S	.2	.1	.1	.0	.0		.3	10.1	.0	.3	.4	.6
SW	.5	.7	*	.0	.0		1.3	7.6	1.0	2.5	.7	1.0
W	2.1	2.4	.3	.0	.0		4.7	8.4	6.0	2.9	4.7	4.9
NW	4.1	24.3	6.9	.1	.0		35.5	12.5	37.3	35.3	35.2	34.0
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	.7						.7	.0	.0	1.6	.7	.6
TOT OBS	148	764	247	8	0	1167		12.7	318	253	279	317
TOT PCT	12.7	65.5	21.2	.7	.0		100.0		100.0	100.0	100.0	100.0

JUNE

PERIOD: (PRIMARY) 1955-1973
(OVER-ALL) 1875-1973

AREA 0031 SAN DIEGO 200 SW
29.6N 122.5W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	.0	1.3	34.9	57.2	6.6	.0	.0	13.0	100.0	318
06&09	1.6	1.6	32.8	58.1	5.9	.0	.0	12.8	100.0	253
12&15	.7	2.2	40.5	50.9	5.7	.0	.0	12.2	100.0	279
18&21	.6	1.6	37.9	52.7	7.3	.0	.0	12.6	100.0	317
TOT	8	19	427	638	75	0	0	12.7		1167
PCT	.7	1.6	36.6	54.7	6.4	.0	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	7.0	4.8	15.6	23.9		6.1
NE	.9	.4	2.3	1.6		5.8
E	.1	.1	.1	.2		5.3
SE	.0	.0	*	.1		7.6
S	.0	.0	.1	.1		7.4
SW	.3	.2	.6	.3		5.4
W	.5	.4	1.3	2.6		6.3
NW	4.1	2.4	9.9	19.5		6.4
VAR	.0	.0	.0	.0		.0
CALM	.1	.1	.1	.2		5.2
TOT OBS	119	77	273	442	911	6.2
TOT PCT	13.1	8.5	30.0	48.5	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.1	.2	1.3	8.3	17.1	9.9	1.1	.3	.0	.0	12.9	
NE	.0	.1	.1	1.0	1.8	.7	.2	.1	.0	.0	1.4	
E	.0	.0	.0	.0	.2	.1	.0	.0	.0	.0	.2	
SE	.0	.0	*	.0	*	.1	.0	.0	.0	.0	.0	
S	.0	.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	
SW	.0	.0	.0	.0	.3	.6	.0	.0	.0	.0	.5	
W	.0	.0	.2	.7	1.5	.9	.2	.2	.0	.0	1.2	
NW	.4	.4	.7	4.8	9.9	9.9	1.6	.7	.2	.1	6.9	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.1	.1	.0	.0	.0	.0	.0	.3	
TOT OBS	5	7	22	137	281	202	28	12	2	1	214	911
TOT PCT	.5	.8	2.4	15.0	30.8	22.2	3.1	1.3	.2	.1	23.5	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM) = OR >10	= OR >5	= OR >2	= OR >1	= OR >1/2	= OR >1/4	= OR >50YD	= OR >0
= OR >6500	.3	.3	.3	.3	.3	.3	.3	.3
= OR >5000	.9	1.3	1.6	1.6	1.6	1.6	1.6	1.6
= OR >3500	2.5	4.3	4.7	4.7	4.7	4.7	4.7	4.7
= OR >2000	21.9	26.0	26.8	26.8	26.8	26.8	26.8	26.8
= OR >1000	45.4	56.4	57.8	57.8	57.8	57.8	57.9	57.9
= OR >600	55.7	70.3	72.7	72.9	72.9	72.9	73.0	73.0
= OR >300	57.4	72.6	75.2	75.4	75.4	75.4	75.5	75.5
= OR >150	57.6	72.8	75.4	75.6	75.6	76.1	76.3	76.3
= OR > 0	57.7	73.1	75.7	76.0	76.0	76.5	76.8	76.8
TOTAL	528	669	693	695	695	700	703	703

TOTAL NUMBER OF OBS: 915 PCT FREQ NH <5/8: 23.2

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
6.3	3.4	4.4	4.7	4.3	3.7	11.3	17.6	44.1 .2	944

JUNE

PERIOD: (PRIMARY) 1955-1973
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29.6N 122.5W

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	PCP	.1	*	.0	.0	.0	.0	.0	.0	.0	.0	.1	
<1/2	NO PCP	.2	.0	.0	.0	.0	.0	.0	.5	.0	.0	.7	
	TOT %	.3	*	.0	.0	.0	.0	.0	.5	.0	.0	.8	
	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	NO PCP	.6	.2	.0	.0	.0	.0	.0	*	.0	.0	.9	
	TOT %	.6	.2	.0	.0	.0	.0	.0	*	.0	.0	.9	
	PCP	.1	.0	.0	.0	.0	.0	.0	*	.0	.0	.1	
1<2	NO PCP	.0	.1	.0	.0	.0	.0	*	.1	.0	.0	.3	
	TOT %	.1	.1	.0	.0	.0	.0	*	.2	.0	.0	.4	
	PCP	.4	*	.0	.0	.0	.0	.1	.3	.0	.0	.8	
2<5	NO PCP	.4	.1	.1	.1	.0	.0	.1	1.3	.0	.0	2.0	
	TOT %	.8	.1	.1	.1	.0	.0	.2	1.6	.0	.0	2.9	
	PCP	.9	.1	.0	.0	.0	.0	.0	.2	.0	.0	1.2	
5<10	NO PCP	8.6	1.6	.1	.0	.0	.1	1.6	7.7	.0	.1	19.7	
	TOT %	9.5	1.7	.1	.0	.0	.1	1.6	8.0	.0	.1	20.9	
	PCP	.5	*	.0	.0	.0	.0	.0	.1	.0	.0	.6	
10+	NO PCP	39.3	3.6	.3	*	.3	1.2	3.1	25.1	.0	.5	73.5	
	TOT %	39.8	3.6	.3	*	.3	1.2	3.1	25.2	.0	.5	74.2	
	TOT OBS												1122
	TOT PCT	51.1	5.7	.4	.1	.3	1.3	4.9	35.5	.0	.6	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
<1/2	4-10	.2	*	.0	.0	.0	.0	.0	.5	.0		.7	
	11-21	.1	.0	.0	.0	.0	.0	.0	*	.0		.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.3	*	.0	.0	.0	.0	.0	.5	.0	.0	.8	
	0-3	.1	.0	.0	.0	.0	.0	.0	*	.0	.0	.1	
1/2<1	4-10	.1	.1	.0	.0	.0	.0	.0	.0	.0		.2	
	11-21	.5	.1	.0	.0	.0	.0	.0	.0	.0		.6	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.6	.2	.0	.0	.0	.0	.0	*	.0	.0	.9	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	4-10	.0	.1	.0	.0	.0	.0	.0	.0	.0		.1	
	11-21	.1	.0	.0	.0	.0	.0	*	.2	.0		.3	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.1	.1	.0	.0	.0	.0	*	.2	.0	.0	.4	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
2<5	4-10	.2	.0	.0	.1	.0	.0	.2	.4	.0		.9	
	11-21	.6	.1	.1	*	.0	.0	.0	1.2	.0		2.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.8	.1	.1	.1	.0	.0	.2	1.6	.0	.0	2.8	
	0-3	*	*	.0	.0	.0	.0	.1	.1	.0	.1	.5	
5<10	4-10	3.3	.6	.0	.0	.0	*	1.2	3.6	.0		8.7	
	11-21	5.4	1.0	.1	.0	.0	.1	.1	4.3	.0		11.0	
	22+	.8	.0	.0	.0	.0	.0	.0	.1	.0		.9	
	TOT %	9.5	1.7	.1	.0	.0	.1	1.6	8.1	.0	.1	21.1	
	0-3	.4	.0	.0	.0	.0	.3	.1	.4	.0	.6	1.7	
10+	4-10	11.9	1.5	.2	.0	.2	.8	2.2	9.4	.0		26.2	
	11-21	23.7	2.0	.1	*	.1	.1	.7	13.9	.0		40.6	
	22+	3.7	.1	.0	.0	.0	.0	.1	1.6	.0		5.5	
	TOT %	39.7	3.6	.3	*	.3	1.2	3.1	25.2	.0	.6	74.0	
	TOT OBS												1128
	TOT PCT	51.0	5.7	.4	.1	.3	1.3	4.9	35.6	.0	.7	100.0	

JUNE

PERIOD: (PRIMARY) 1955-1973
(OVER-ALL) 1875-1973

AREA 0031 SAN DIEGO 200 SW
29.6N 122.5W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00&03	.0	.4	2.1	11.8	32.1	21.1	3.9	1.4	.4	.4	73.6	26.4	280
06&09	.5	.0	1.9	17.7	28.2	23.9	1.0	1.0	.0	.0	74.2	25.8	209
12&15	2.1	1.6	3.1	18.3	30.9	22.5	3.1	.5	.0	.0	82.2	17.8	191
18&21	.0	1.2	2.9	13.7	32.0	20.7	3.7	2.1	.4	.0	76.8	23.2	241
TOT	5	7	23	138	285	202	28	12	2	1	703	218	921
PCT	.5	.8	2.5	15.0	30.9	21.9	3.0	1.3	.2	.1	76.3	23.7	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00&03	.0	.9	.0	.6	17.2	81.2	319
06&09	.4	.4	.4	2.8	23.3	72.7	253
12&15	1.8	1.1	.7	5.1	28.2	63.2	277
18&21	1.0	1.0	.3	3.1	17.2	77.2	290
TOT	9	10	4	32	242	842	1139
PCT	.8	.9	.4	2.8	21.2	73.9	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET, NH >4/8), BY HOUR

HOUR (GMT)	<150 <30YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	.0	2.5	15.2	59.4	25.4	276
06&09	.5	2.9	23.2	52.2	24.6	207
12&15	2.1	6.8	27.7	56.0	16.2	191
18&21	.0	4.1	20.3	56.8	22.8	241
TOT	5	36	192	516	207	915
PCT	.5	3.9	21.0	56.4	22.6	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
75/79	.0	.0	.0	.1	.0	.0	.1	.0	2	.2
70/74	.0	.0	.0	.1	.7	1.3	.3	.1	24	2.6
65/69	.0	.0	.0	.3	1.9	7.5	4.6	1.1	145	15.4
60/64	.0	.0	.0	.0	4.3	23.4	28.2	11.4	634	67.4
55/59	.0	.0	.0	.0	.2	4.1	5.4	4.6	135	14.3
50/54	.0	.0	.0	.0	.0	.0	.0	.1	1	.1
TOTAL	0	0	0	5	69	342	363	162	941	100.0
PCT	.0	.0	.0	.5	7.3	36.3	38.6	17.2		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.0	.0	.0	.0	.1	.1	.0	.0
.8	.1	.1	.0	.0	.0	.2	1.3	.0	.0
7.7	.6	.1	*	.1	.3	1.1	5.3	.0	.1
35.9	4.1	.2	*	.1	1.0	2.7	22.6	.0	.7
7.2	.8	.1	.0	.2	*	.4	5.7	.0	.0
.1	.0	.0	.0	.0	.0	.0	.0	.0	.0
51.7	5.6	.5	.1	.4	1.5	4.5	35.1	.0	.9

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00&03	79	73	70	64	59	57	54	64.0	322
06&09	72	67	65	61	58	57	57	61.5	255
12&15	69	66	64	61	57	56	55	60.7	280
18&21	75	71	68	63	59	58	57	63.2	312
TOT	79	71	68	62	58	57	54	62.4	1169

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00&03	.0	.4	10.6	40.4	35.1	13.6	80	265
06&09	.0	.0	6.4	34.7	39.7	19.2	82	219
12&15	.0	.9	1.8	29.0	43.3	24.9	84	217
18&21	.0	.8	9.7	40.1	37.2	12.1	80	247
TOT	0	5	70	345	366	168	81	948

PERIOD: (PRIMARY) 1955-1973
(OVER-ALL) 1875-1973

AREA 0031 SAN DIEGO 200 SW
29.6N 122.5W

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	53 56	57 60	61 64	65 68	69 72	73 76	TOT	W FOG	WO FOG
14/16	.0	.0	.0	.0	.0	.1	1	.0	.1
11/13	.0	.0	.0	.0	.2	.3	5	.0	.3
9/10	.0	.0	.0	.2	.1	.0	3	.0	.3
7/8	.0	.0	.4	.9	1.0	.2	27	.0	2.3
6	.0	.0	.6	.7	.3	.0	19	.1	1.7
5	.0	.0	.2	1.4	.7	.0	28	.0	2.3
4	.0	.1	1.0	1.4	.3	.0	32	.0	3.0
3	.0	.2	1.6	1.9	.3	.0	38	.1	3.3
2	.0	.0	3.3	2.6	.2	.0	65	.0	6.1
1	.0	.7	4.7	1.6	.1	.0	76	.1	7.0
0	.0	1.4	9.9	1.9	.1	.0	142	.2	13.1
-1	.0	3.4	10.7	1.0	.0	.0	161	.3	14.6
-2	.1	6.0	9.6	.8	.0	.0	174	.7	15.3
-3	.0	5.1	6.2	.6	.0	.0	127	.4	11.3
-4	.1	6.0	2.6	.1	.0	.0	94	.4	8.4
-5	.0	3.0	1.8	.2	.1	.0	54	.2	4.9
-6	.0	.5	.5	.1	.0	.0	11	.0	1.0
-7/-8	.0	.3	.4	.0	.0	.0	9	.0	.8
-9/-10	.0	.3	.2	.0	.0	.0	5	.0	.3
TOTAL	2	290	569	161	40	6	1068	28	1040
PCT	.2	27.2	53.3	15.1	3.7	.6	100.0	2.6	97.4

PERIOD: (OVER-ALL) 1963-1973

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.1	.7	.0	.0	.0	1.8
1-2	.3	6.4	3.6	.0	.0	.0	10.2
3-4	.0	6.0	13.0	.3	.0	.0	19.3
5-6	.0	1.9	7.1	1.2	.0	.0	10.2
7	.0	.5	5.6	2.6	.0	.0	8.7
8-9	.0	.0	1.5	1.4	.0	.0	2.9
10-11	.0	.0	.1	.5	.0	.0	.6
12	.0	.0	.0	.5	.0	.0	.5
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	15.8	31.6	6.5	.0	.0	54.3

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.1	.0	.0	.0	.0	.1
1-2	.0	.7	.2	.0	.0	.0	.9
3-4	.0	1.3	1.9	.0	.0	.0	3.2
5-6	.0	.1	.8	.0	.0	.0	.9
7	.0	.0	.1	.1	.0	.0	.3
8-9	.0	.0	.2	*	.0	.0	.3
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.2	.0	.0	.0	.2
13-16	.0	.0	.2	.0	.0	.0	.2
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	2.2	3.6	.2	.0	.0	6.0

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.1	.0	.0	.0	.1
3-4	.0	.1	.0	.0	.0	.0	.1
5-6	.0	.0	.3	.0	.0	.0	.3
7	.0	.2	.0	.0	.0	.0	.2
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.3	.4	.0	.0	.0	.7

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	*	.0	.0	.0	*
3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	*	.0	.0	.0	*
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.0	.1	.0	.0	.0	.1

PERIOD: (OVER-ALL) 1963-1973

JUNE

AREA 0031 SAN DIEGO 200 SW
29.6N 122.5W

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

S

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.2	.1	.0	.0	.0	.3
5-6	.0	.0	.1	.0	.0	.0	.1
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.2	.3	.0	.0	.0	.5

SW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.2	.0	.0	.0	.0	.2
1-2	.4	.6	.4	.0	.0	.0	1.3
3-4	.0	.0	*	.0	.0	.0	*
5-6	.0	.6	.0	.0	.0	.0	.6
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.4	1.4	.4	.0	.0	.0	2.2

W

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	1.5	.0	.0	.0	.0	1.6
1-2	.0	1.7	.4	.0	.0	.0	2.1
3-4	.1	1.2	.2	.0	.0	.0	1.5
5-6	.0	.6	.1	.0	.0	.0	.7
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.2	.0	.0	.2
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	5.0	.7	.2	.0	.0	6.1

NW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	*	.5	.0	.0	.0	.0	.6
1-2	.2	5.8	2.4	.0	.0	.0	8.3
3-4	*	3.6	6.7	.2	.0	.0	10.6
5-6	.0	2.4	3.2	.1	.0	.0	5.7
7	.0	*	3.0	.2	.0	.0	3.2
8-9	.0	.0	.7	.0	.0	.0	.7
10-11	.0	.0	*	.3	.0	.0	.3
12	.0	.0	.0	*	.0	.0	*
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	12.2	16.0	.8	.0	.0	29.4

HGT	TOTAL PCT
<1	.6
1-2	8.3
3-4	10.6
5-6	5.7
7	3.2
8-9	.7
10-11	.3
12	*
13-16	.0
17-19	.0
20-22	.0
23-25	.0
26-32	.0
33-40	.0
41-48	.0
49-60	.0
61-70	.0
71-86	.0
87+	.0
TOT PCT	99.3

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	.9	3.3	.7	.0	.0	.0	5.0	
1-2	.9	15.1	7.0	.0	.0	.0	23.1	
3-4	.2	12.4	22.0	.6	.0	.0	35.1	
5-6	.0	5.5	11.8	1.3	.0	.0	18.6	
7	.0	.7	8.7	3.0	.0	.0	12.4	
8-9	.0	.0	2.4	1.5	.0	.0	3.9	
10-11	.0	.0	.2	.9	.0	.0	1.1	
12	.0	.0	.2	.6	.0	.0	.7	
13-16	.0	.0	.2	.0	.0	.0	.2	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	2.0	37.1	53.1	7.7	.0	.0	100.0	942

PERIOD: (OVER-ALL) 1949-1973

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	.6	4.7	12.7	5.0	3.4	1.1	.1	.1	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	240	4
6-7	.0	.2	7.8	11.7	8.8	4.0	2.3	.8	.8	.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	314	6
8-9	.0	.4	2.7	6.1	5.6	3.5	2.6	1.3	.7	.4	.1	.0	.0	.0	.0	.0	.0	.0	.0	199	7
10-11	.0	.1	.9	1.3	2.5	1.1	.8	.4	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	67	7
12-13	.0	.0	.5	.5	.8	.1	.1	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	30	7
>13	.0	.0	.0	.1	.1	.2	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5	9
INDET	.2	.4	.3	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	12	3
TOTAL	7	49	215	211	184	85	51	25	24	3	2	1	0	0	0	0	0	0	0	857	6
PCT	.8	5.7	25.1	24.6	21.5	9.9	6.0	2.9	2.8	.4	.2	.1	.0	.0	.0	.0	.0	.0	.0	100.0	

JULY

PERIOD: (PRIMARY) 1958-1973
(OVER-ALL) 1880-1973

AREA 0031 SAN DIEGO 200 SW
29.6N 122.3W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	.3	.0	1.2	.0	.0	.0	.0	1.8	.2	.4	1.6	.0	.7	.1		98.0
NE	.0	.0	3.7	.0	.0	.0	.0	5.7	.0	.0	2.1	.0	.0	.4		91.8
E	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.8	.0	.0	.0		98.7
SE	.0	.0	.0	.0	.0	.0	.0	.0	12.5	.0	.0	.0	.0	.0		87.5
S	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		100.0
SW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		100.0
W	.0	1.4	.0	.0	.0	.0	.0	1.4	.0	.0	1.4	.0	.0	.0		97.2
NW	.2	.2	1.2	.0	.0	.0	.0	1.8	.4	.0	2.1	.0	.8	.0		95.2
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		100.0
TOT PCT	.2	.1	1.4	.0	.0	.0	.0	1.7	.3	.2	1.7	.0	.6	.1		98.4
TOT OBS:	995															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00&03	.0	.0	.7	.0	.0	.0	.0	.7	.0	.0	1.8	.0	.0	.4	.0	97.8
06&09	.4	.0	3.1	.0	.0	.0	.0	3.5	.0	.0	1.8	.0	.0	.0	.0	94.7
12&15	.0	.8	2.1	.0	.0	.0	.0	2.9	.4	.8	2.5	.0	1.7	.0	.0	91.6
18&21	.4	.0	.0	.0	.0	.0	.0	.4	.8	.0	1.1	.0	1.1	.0	.0	96.6
TOT PCT	.2	.2	1.4	.0	.0	.0	.0	1.8	.3	.2	1.8	.0	.7	.1		95.2
TOT OBS:	1011															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	1.8	17.2	34.8	3.1	.0	.0		56.8	13.1	59.7	57.9	55.1	61.5	56.8	52.2	55.6	56.0
NE	.2	3.3	3.7	*	.0	.0		7.2	11.4	5.4	7.2	7.0	8.3	9.0	6.1	6.5	11.7
E	.0	.9	.2	.0	.0	.0		1.1	7.8	.0	.0	2.3	.0	1.8	1.8	.9	.8
SE	.4	.4	.0	.0	.0	.0		.8	4.1	.4	1.9	.5	.0	.0	.0	.9	1.2
S	.0	.2	.1	.0	.0	.0		.3	9.8	.4	.0	.8	.0	.0	.0	.5	.0
SW	.1	.6	.0	.0	.0	.0		.7	6.2	.1	.0	1.2	.0	1.1	.0	1.5	.0
W	.3	2.2	.8	.0	.0	.0		3.4	8.2	3.4	2.6	4.0	.0	2.8	3.9	3.8	3.8
NW	.5	12.3	13.3	1.1	.0	.0		27.2	12.0	29.3	24.3	26.5	27.6	22.9	36.0	27.1	26.8
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	2.5							2.5	.0	1.2	.0	2.7	2.6	5.6	.0	3.2	.0
TOT OBS	61	386	952	44	0	0	1043		12.0	242	38	187	39	180	57	217	83
TOT PCT	5.8	37.0	52.9	4.2	.0	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	7.1	35.8	13.6	.4	.0		56.8	13.1	59.5	56.2	55.7	55.8
NE	1.2	4.8	1.2	.0	.0		7.2	11.4	5.6	7.2	8.3	7.9
E	.5	.6	.0	.0	.0		1.1	7.8	.0	1.9	1.8	.8
SE	.6	.2	.0	.0	.0		.8	4.1	1.4	.4	.0	1.0
S	.1	.1	.1	.0	.0		.3	9.8	.4	.7	.0	.3
SW	.3	.4	.0	.0	.0		.7	6.2	.1	1.0	.8	1.1
W	1.2	2.1	.1	.0	.0		3.4	8.2	3.3	3.3	3.1	3.8
NW	5.0	16.4	5.7	*	.0		27.2	12.0	28.7	26.7	26.1	27.0
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	2.5						2.5	.0	1.1	2.7	4.2	2.3
TOT OBS	193	630	216	4	0	1043		12.0	280	226	237	300
TOT PCT	18.5	60.4	20.7	.4	.0		100.0		100.0	100.0	100.0	100.0

JULY

PERIOD: (PRIMARY) 1958-1973
(OVER-ALL) 1880-1973

AREA 0031 SAN DIEGO 200 SW
29.6N 122.3W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	1.1	3.9	33.2	55.7	6.1	.0	.0	12.4	100.0	280
06&09	2.7	2.7	40.3	50.4	4.0	.0	.0	11.9	100.0	226
12&15	4.2	2.1	38.4	53.6	1.7	.0	.0	11.7	100.0	237
18&21	2.3	4.3	37.0	51.7	4.7	.0	.0	12.0	100.0	300
TOT	26	35	386	552	47	0	0	12.0		1043
PCT	2.5	3.4	37.0	52.9	4.2	.0	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	3.7	4.9	20.2	28.4		6.6
NE	.1	.5	1.9	5.0		7.3
E	.1	.0	.2	.5		6.8
SE	*	.0	.0	.4		7.4
S	.1	.0	.2	.1		5.1
SW	.1	.0	.0	.8		7.2
W	.1	.0	.9	1.9		7.3
NW	1.3	2.1	8.7	15.1		6.8
VAR	.0	.0	.0	.0		.0
CALM	.5	.0	.7	1.3		5.9
TOT OBS	51	63	278	452	844	6.7
TOT PCT	6.0	7.5	32.9	53.6	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WND DIR	100 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.3	.1	2.2	11.0	23.4	8.3	1.3	.5	.0	.0	10.1	
NE	.0	.0	.8	1.8	2.5	1.0	*	.1	.1	.0	1.2	
E	.0	.0	.1	.2	.4	.1	.0	.0	.0	.0	.1	
SE	0	.0	.0	.1	.0	.2	.1	.0	.0	.0	*	
S	.0	.0	.0	.1	.0	.1	.0	.0	.0	.1	.1	
SW	.0	.0	.0	.0	.3	.4	.0	.1	.0	.0	.1	
W	.2	.0	.0	.1	1.7	.6	.1	.1	.0	.0	.1	
NW	.1	.0	1.0	4.2	12.5	4.3	.4	.1	.4	.0	4.1	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.1	.5	.8	.4	.1	.0	.0	.0	.6	
TOT OBS	6	1	35	152	350	130	18	8	4	1	139	844
TOT PCT	.7	.1	4.1	18.0	41.5	15.4	2.1	.9	.5	.1	16.5	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM) * OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >50YD	* OR >0
* OR >6500	.6	.6	.6	.6	.6	.6	.6	.6
* OR >5000	1.4	1.5	1.5	1.5	1.5	1.5	1.5	1.5
* OR >3500	3.2	3.7	3.7	3.7	3.7	3.7	3.7	3.7
* OR >2000	13.5	18.6	19.0	19.0	19.0	19.0	19.0	19.0
* OR >1000	41.5	58.9	60.5	60.5	60.5	60.5	60.5	60.5
* OR >600	53.4	76.1	78.7	78.7	78.7	78.7	78.7	78.7
* OR >300	56.0	79.6	82.3	82.3	82.3	82.3	82.7	82.7
* OR >150	56.1	79.7	82.4	82.4	82.4	82.4	82.9	82.9
* OR > 0	56.5	80.0	82.7	82.9	82.9	83.0	83.6	83.6
TOTAL	478	677	700	701	701	702	707	707

TOTAL NUMBER OF OBS: 846

PCT FREQ NH <5/8: 16.4

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
2.6	2.2	3.1	4.4	3.9	4.5	10.8	20.8	47.4 .3	881

PERIOD: (PRIMARY) 1958-1973
(OVER-ALL) 1880-1973

AREA 0031 SAN DIEGO 200 SW
29.6N 122.3W

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	PCP	.2	.4	.0	.0	.0	.0	.0	.1	.0	.0	.6	
<1/2	NO PCP	.1	.0	.0	.0	.0	.0	.0	.1	.0	.0	.2	
	TOT %	.3	.4	.0	.0	.0	.0	.0	.2	.0	.0	.8	
	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	NO PCP	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	
	TOT %	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	
	PCP	.2	.0	.0	.0	.0	.0	.0	*	.0	.0	.2	
1<2	NO PCP	.1	.0	.0	.0	.0	.0	.0	.1	.0	.0	.2	
	TOT %	.3	.0	.0	.0	.0	.0	.0	.1	.0	.0	.4	
	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
2<5	NO PCP	1.9	.2	.1	.1	.0	.0	.1	.8	.0	.0	3.1	
	TOT %	1.9	.2	.1	.1	.0	.0	.1	.8	.0	.0	3.1	
	PCP	.3	.0	.0	.0	.0	.0	.1	.1	.0	.0	.4	
5<10	NO PCP	15.1	2.1	.2	.3	.1	.3	1.5	7.5	.0	.2	27.2	
	TOT %	15.3	2.1	.2	.3	.1	.3	1.5	7.6	.0	.2	27.6	
	PCP	.3	.0	.0	.0	.0	.0	.0	.3	.0	.0	.5	
10+	NO PCP	38.1	4.4	.9	.4	.3	.5	2.0	18.6	.0	2.3	67.4	
	TOT %	38.4	4.4	.9	.4	.3	.5	2.0	18.8	.0	2.3	67.9	
	TOT OBS												993
	TOT PCT	56.3	7.0	1.1	.8	.4	.8	3.5	27.5	.0	2.5	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
<1/2	4-10	.0	.3	.0	.0	.0	.0	.0	.0	.0		.3	
	11-21	.2	.1	.0	.0	.0	.0	.0	.1	.0		.5	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.2	.4	.0	.0	.0	.0	.0	.1	.0	.0	.8	
	0-3	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	
1/2<1	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	
	0-3	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	
1<2	4-10	.1	.0	.0	.0	.0	.0	.0	.1	.0	.	.2	
	11-21	.1	.0	.0	.0	.0	.0	.0	*	.0		.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.3	.0	.0	.0	.0	.0	.0	.1	.0	.0	.4	
	0-3	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.1	
2<5	4-10	.9	.1	*	.0	.0	.0	.0	.3	.0		1.4	
	11-21	1.6	*	.0	.0	.0	.0	*	.6	.0		2.4	
	22+	.1	.0	.0	.0	.0	.0	.0	.0	.0		.1	
	TOT %	2.6	.2	*	.1	.0	.0	*	1.0	.0	.0	4.0	
	0-3	.4	.1	.0	.3	.0	.0	.1	.2	.0	.2	1.3	
5<10	4-10	3.5	.7	*	.0	.0	.3	1.2	2.9	.0		8.7	
	11-21	10.2	1.2	.1	.0	.1	.0	.2	4.3	.0		16.2	
	22+	1.0	.0	.0	.0	.0	.0	.0	.2	.0		1.2	
	TOT %	15.2	2.1	.1	.3	.1	.3	1.5	7.5	.0	.2	27.3	
	0-3	1.1	.1	.0	.0	.0	.1	.3	.2	.0	2.3	4.2	
10+	4-10	12.3	1.8	.7	.4	.2	.3	1.1	8.9	.0		25.8	
	11-21	22.6	2.3	.1	.0	.0	.0	.6	8.6	.0		34.2	
	22+	2.1	*	.0	.0	.0	.0	.0	.9	.0		3.1	
	TOT %	38.1	4.3	.8	.4	.2	.5	2.0	18.6	.0	2.3	67.3	
	TOT OBS												1003
	TOT PCT	56.6	7.0	1.0	.8	.3	.8	3.5	27.4	.0	2.5	100.0	

JULY

PERIOD: (PRIMARY) 1958-1973
(OVER-ALL) 1880-1973

AREA 0031 SAN DIEGO 200 SW
29.6N 122.3W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00&03	.0	.0	3.2	18.6	40.9	13.8	3.2	1.2	.8	.4	82.2	17.8	247
06&09	.5	.0	4.7	15.1	38.5	14.6	1.6	1.6	.0	.0	76.6	23.4	192
12&15	1.1	.5	4.3	20.3	40.6	16.0	1.1	.0	.5	.0	84.5	15.5	187
18&21	1.3	.0	4.4	18.2	44.9	16.9	2.2	.9	.4	.0	89.3	10.7	225
TOT	6	1	35	154	352	130	18	8	4	1	709	142	851
PCT	.7	.1	4.1	18.1	41.4	15.3	2.1	.9	.5	.1	83.3	16.7	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00&03	.4	.4	.4	3.2	23.5	72.2	281
06&09	1.3	.4	.0	3.5	34.4	60.4	227
12&15	1.2	.4	.8	5.3	31.7	60.5	243
18&21	.4	.0	.7	3.7	24.6	70.5	268
TOT	8	3	5	40	287	676	1019
PCT	.8	.3	.5	3.9	28.2	66.3	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET, NH >4/8), BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	.0	3.2	23.1	59.1	17.8	247
06&09	.5	5.3	21.2	56.6	22.2	189
12&15	1.1	5.9	29.6	55.4	15.1	186
18&21	1.3	5.4	25.9	63.4	10.7	224
TOT	6	41	210	498	138	846
PCT	.7	4.8	24.8	58.9	16.3	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
75/79	.0	.0	.0	.0	.2	.1	.0	.1	4	.5
70/74	.0	.0	.0	.1	1.0	3.1	1.0	.2	45	5.4
65/69	.0	.0	.0	.2	1.9	11.6	12.8	4.6	258	31.2
60/64	.0	.0	.0	.0	.5	12.7	33.1	12.8	488	59.1
55/59	.0	.0	.0	.0	.0	.5	1.5	1.8	31	3.8
TOTAL	0	0	0	3	30	232	399	162	826	100.0
PCT	.0	.0	.0	.4	3.6	28.1	48.3	19.6		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.2	.1	.0	.0	.0	.0	.0	.2	.0	.0
2.9	.1	.0	.0	.0	.0	.5	1.8	.0	.2
17.8	2.2	.7	.2	.1	.4	.5	7.6	.0	1.7
34.4	3.7	.4	.3	.1	.3	2.0	17.2	.0	.6
2.1	.6	.0	.0	.0	.0	.2	.6	.0	.1
57.5	6.7	1.1	.5	.2	.7	3.2	27.4	.0	2.7

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00&03	77	75	72	66	61	60	59	65.9	283
06&09	75	70	68	63	60	58	57	63.2	228
12&15	69	68	67	62	59	58	56	62.7	244
18&21	75	73	70	64	60	57	55	64.9	299
TOT	77	73	70	64	60	58	55	64.3	1054

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00&03	.0	1.3	6.6	34.5	45.6	11.9	80	226
06&09	.0	.0	1.6	22.3	56.0	20.1	84	184
12&15	.0	.0	1.0	15.6	53.8	29.6	85	199
18&21	.0	.0	4.5	37.6	40.3	17.6	81	221
TOT	0	3	30	233	402	162	82	830

JULY

PERIOD: (PRIMARY) 1958-1973
(OVER-ALL) 1880-1973

AREA 0031 SAN DIEGO 200 SW
29.6N 122.3W

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	53 56	57 60	61 64	65 68	69 72	73 76	77 80	TOT	W FOG	WO FOG
11/13	.0	.0	.0	.0	.1	.0	.1	2	.0	.2
9/10	.0	.0	.0	.0	.6	.3	.0	9	.0	.9
7/8	.0	.0	.0	.0	.4	.1	.0	5	.0	.5
6	.0	.1	.0	.4	.9	.1	.0	15	.1	1.5
5	.0	.0	.6	.9	1.8	.1	.0	33	.1	3.4
4	.0	.0	.4	2.1	1.2	.3	.0	38	.0	4.0
3	.0	.2	.4	2.1	1.3	.0	.0	38	.0	4.0
2	.0	.1	2.4	4.2	.7	.1	.0	72	.1	7.4
1	.0	.2	2.9	3.6	.8	.0	.0	72	.1	7.4
0	.1	1.3	6.9	6.9	.5	.0	.0	150	.4	15.3
-1	.0	1.0	8.9	5.5	.1	.1	.0	149	.3	15.3
-2	.0	1.8	9.6	2.9	.1	.0	.0	138	.2	14.3
-3	.0	1.6	7.4	1.3	.1	.0	.0	99	.1	10.3
-4	.0	1.2	4.6	.1	.1	.0	.0	57	.1	5.9
-5	.0	.7	2.2	.5	.0	.0	.0	33	.0	3.5
-6	.1	.9	1.7	.0	.0	.0	.0	26	.0	2.7
-7/-8	.0	.5	.4	.1	.0	.0	.0	10	.1	.9
-9/-10	.0	.2	.3	.0	.0	.0	.0	5	.0	.5
-11/-13	.0	.0	.3	.0	.0	.0	.0	3	.1	.2
TOTAL	2	94	470	292	84	11	1	954	17	937
PCT	.2	9.9	49.3	30.6	8.8	1.2	.1	100.0	1.8	98.2

PERIOD: (OVER-ALL) 1963-1973

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.5	.6	.0	.0	.0	.0	1.1
1-2	.3	7.6	3.7	.0	.0	.0	11.6
3-4	.1	7.0	16.0	.1	.0	.0	23.2
5-6	.0	1.0	11.9	.8	.0	.0	13.7
7	.0	.5	5.7	1.2	.0	.0	7.4
8-9	.0	.3	1.2	.7	.0	.0	2.2
10-11	.0	.0	.8	.0	.0	.0	.8
12	.0	.0	.2	.3	.0	.0	.5
13-16	.0	.0	.1	.2	.0	.0	.3
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.9	17.0	39.7	3.3	.0	.0	60.9

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	*	.0	.0	.0	.0	.3
1-2	.0	.8	.4	.0	.0	.0	1.2
3-4	*	.7	.9	*	.0	.0	1.6
5-6	.0	.3	1.6	*	.0	.0	2.0
7	.0	.0	.6	.0	.0	.0	.6
8-9	.0	.0	.2	.0	.0	.0	.2
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	1.8	3.8	.1	.0	.0	5.9

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.2	.0	.0	.0	.2
3-4	.0	.2	.0	.0	.0	.0	.2
5-6	.0	.1	.2	.0	.0	.0	.3
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.3	.3	.0	.0	.0	.6

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.3	.0	.0	.0	.0	.3
3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.3	.0	.0	.0	.0	.3

PERIOD: (OVER-ALL) 1963-1973 JULY AREA 0031 SAN DIEGO 200 SW

TABLE 18 (CONT) 29.6N 122.3W

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

S

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.2	.0	.0	.0	.0	.2
5-6	.0	.0	.2	.0	.0	.0	.2
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.2	.2	.0	.0	.0	.3

SW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.4	.0	.0	.0	.0	.4
1-2	.0	.2	.0	.0	.0	.0	.2
3-4	.0	.2	.0	.0	.0	.0	.2
5-6	.0	*	.0	.0	.0	.0	*
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.8	.0	.0	.0	.0	.8

W

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.4	.0	.0	.0	.0	.4
1-2	.0	1.3	.2	.0	.0	.0	1.4
3-4	.2	.3	.5	.0	.0	.0	.9
5-6	.0	.1	.0	.0	.0	.0	.1
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	2.1	.7	.0	.0	.0	2.9

NW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	.4	.2	.0	.0	.0	.6	
1-2	.2	7.1	2.2	.0	.0	.0	9.4	
3-4	.0	3.5	7.0	.2	.0	.0	10.7	
5-6	.0	.9	2.5	.2	.0	.0	3.6	
7	.0	.0	1.4	.3	.0	.0	1.7	
8-9	.0	.2	.3	.3	.0	.0	.8	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.2	.0	.0	.2	
13-16	.0	.0	*	.0	.0	.0	*	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.2	12.2	13.5	1.2	.0	.0	27.0	98.8

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	2.0	1.9	.2	.0	.0	.0	4.0	
1-2	.7	17.2	6.6	.0	.0	.0	24.4	
3-4	.3	12.0	24.2	.3	.0	.0	36.9	
5-6	.0	2.5	16.3	1.0	.0	.0	19.9	
7	.0	.5	7.7	1.5	.0	.0	9.8	
8-9	.0	.5	1.7	1.0	.0	.0	3.2	
10-11	.0	.0	.8	.0	.0	.0	.8	
12	.0	.0	.2	.5	.0	.0	.7	
13-16	.0	.0	.2	.2	.0	.0	.3	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
								994
TOT PCT	3.0	34.5	57.9	4.5	.0	.0	100.0	

PERIOD: (OVER-ALL) 1949-1973 TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	.4	4.8	14.9	7.2	2.8	1.1	.4	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	239	4
6-7	.0	1.5	7.6	11.3	9.2	4.4	2.3	.4	1.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	285	6
8-9	.0	.3	1.6	4.0	6.7	4.7	2.0	.5	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	130	7
10-11	.0	.3	.4	1.1	1.2	1.6	.7	.4	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	43	7
12-13	.0	.0	.1	.3	.5	.3	.1	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	12	8
>13	.0	.0	.0	.3	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6	7
INDET	.4	.7	.5	.5	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	18	3
TOTAL	6	56	189	185	155	91	41	11	12	5	0	0	0	0	0	0	0	0	0	751	6
PCT	.8	7.5	25.2	24.6	20.6	12.1	5.5	1.5	1.6	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

AUGUST

PERIOD: (PRIMARY) 1945-1973
(OVER-ALL) 1869-1973

AREA 0031 SAN DIEGO 200 SW
29.5N 122.3W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	.1	.0	1.0	.0	.0	.0	.0	1.1	.1	.0	3.3	.2	1.0		.0	94.3
NE	.2	.0	4.7	.0	.0	.0	.0	4.9	.9	.0	1.7	.0	.9		.0	91.6
E	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	16.4	.0	6.6		.0	77.0
SE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	100.0
S	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	100.0
SW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	100.0
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	100.0
NW	.3	.0	.8	.0	.0	.0	.0	.8	.4	.0	1.3	.0	1.3		.0	96.3
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6.7	.0	.0		.0	93.3
TOT PCT	.2	.0	1.3	.0	.0	.0	.0	1.3	.3	.0	2.9	.1	1.2		.0	94.3
TOT OBS:	1117															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00&03	.0	.0	.9	.0	.0	.0	.0	.9	.3	.0	2.4	.0	.9		.0	95.5
06&09	.4	.0	2.1	.0	.0	.0	.0	2.5	.8	.0	2.5	.0	1.2		.0	93.0
12&15	.0	.0	1.6	.0	.0	.0	.0	1.6	.0	.0	4.8	.0	.8		.0	92.8
18&21	.3	.0	.7	.0	.0	.0	.0	.7	.0	.0	2.0	.3	1.7		.0	95.4
TOT PCT	.2	.0	1.2	.0	.0	.0	.0	1.3	.3	.0	2.8	.1	1.2		.0	94.3
TOT OBS:	1129															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	.9	22.4	28.3	2.1	.0	.0		53.6	12.2	56.2	50.9	54.2	50.0	52.4	59.5	53.3	48.1
NE	.2	5.8	5.0	.2	.0	.0		11.2	11.0	8.5	13.9	11.9	12.3	15.1	15.5	7.1	15.8
E	.4	2.2	.7	.2	.0	.0		3.4	9.0	1.9	8.3	2.6	6.1	2.7	4.3	2.4	8.6
SE	.0	.0	.0	.2	.0	.0		.2	26.0	.0	.0	.0	.0	.0	.0	.4	1.1
S	.0	.2	.0	.0	.0	.0		.2	5.9	.4	.0	.4	.0	.0	.0	.0	1.1
SW	.1	.2	.0	.0	.0	.0		.3	5.4	.0	.0	.3	.0	.5	.0	.4	.6
W	.2	1.3	.8	.0	.0	.0		2.3	9.2	2.4	3.7	.8	2.2	1.7	1.3	2.4	5.8
NW	.4	12.5	13.4	1.3	.0	.0		27.6	11.9	29.6	23.1	27.7	29.4	25.0	19.4	32.8	18.9
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.3							1.3	.0	1.1	.0	2.2	.0	2.6	.0	1.2	.0
TOT OBS	40	518	560	46	0	0	1164		11.6	283	54	185	57	194	58	243	90
TOT PCT	3.4	44.5	48.1	4.0	.0	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	6.9	36.2	10.5	.0	.0		53.6	12.2	55.3	53.2	54.1	51.9
NE	1.6	8.2	1.4	.0	.0		11.2	11.0	9.3	12.0	13.2	9.5
E	1.4	1.8	.2	.1	.0		3.4	9.0	3.0	3.4	3.1	4.1
SE	.0	.0	.1	.1	.0		.2	26.0	.0	.0	.0	.6
S	.2	.1	.0	.0	.0		.2	5.9	.3	.3	.0	.3
SW	.2	.1	.0	.0	.0		.3	5.4	.0	.2	.4	.5
W	.7	1.6	*	.0	.0		2.3	9.2	2.6	1.1	1.6	3.3
NW	3.4	19.9	4.3	.1	.0		27.6	11.9	28.6	28.1	23.7	29.1
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	1.3						1.3	.0	.9	1.7	2.0	.9
TOT OBS	181	788	192	3	0	1164		11.6	337	242	252	333
TOT PCT	15.5	67.7	16.5	.3	.0		100.0		100.0	100.0	100.0	100.0

AUGUST

PERIOD: (PRIMARY) 1945-1973
(OVER-ALL) 1869-1973

AREA 0031 SAN DIEGO 200 SW
29.5N 122.3W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	.9	2.1	41.2	50.7	5.0	.0	.0	12.1	100.0	337
06&09	1.7	1.7	47.1	46.7	2.9	.0	.0	11.3	100.0	242
12&15	2.0	3.2	51.6	41.3	2.0	.0	.0	10.8	100.0	252
18&21	.9	1.8	40.5	51.7	5.1	.0	.0	12.1	100.0	333
TOT	15	25	518	560	46	0	0	11.6		1164
PCT	1.3	2.1	44.5	48.1	4.0	.0	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	7.1	4.8	15.7	26.0		6.2
NE	1.5	1.1	3.0	4.6		6.1
E	.5	.2	.2	1.4		5.8
SE	.0	.0	.0	.1		8.0
S	.0	.0	.1	.1		7.4
SW	*	.1	.0	.2		5.8
W	.2	.1	.7	1.3		6.8
NW	3.3	1.8	7.5	16.9		6.4
VAR	.0	.0	.0	.0		.0
CALM	.0	.1	.4	1.0		7.2
TOT OBS	105	69	229	428	831	6.3
TOT PCT	2.6	8.3	27.6	51.5	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.0	1.6	9.9	20.7	6.0	1.6	.1	.1	.0	13.5	
NE	.0	.0	.4	1.9	3.5	.6	.3	.0	.1	.0	3.4	
E	.0	.0	.1	.5	.4	.1	.5	.0	.0	.0	.8	
SE	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	
S	.0	.0	.0	.0	.1	.0	.1	.0	.0	.0	.0	
SW	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	.2	
W	.0	.0	.0	.6	1.1	.2	.0	.0	.0	.0	.4	
NW	.0	.0	.6	6.1	12.2	4.1	.6	.0	.0	.0	6.0	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.1	.1	.6	.5	.0	.0	.0	.0	.1	
TOT OBS	0	0	24	158	322	96	25	1	2	0	203	831
TOT PCT	.0	.0	2.9	19.0	38.7	11.6	3.0	.1	.2	.0	24.4	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM) * OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >50YD	* OR >0
* OR >6500	.1	.2	.2	.2	.2	.2	.2	.2
* OR >5000	.2	.4	.4	.4	.4	.4	.4	.4
* OR >3500	1.8	3.2	3.3	3.3	3.3	3.3	3.3	3.3
* OR >2000	11.0	14.4	15.0	15.0	15.0	15.0	15.0	15.0
* OR >1000	42.0	52.6	53.6	53.6	53.6	53.6	53.6	53.6
* OR >600	55.6	70.8	72.4	72.5	72.5	72.5	72.5	72.5
* OR >300	57.4	73.4	75.2	75.4	75.4	75.4	75.4	75.4
* OR >150	57.4	73.4	75.2	75.4	75.4	75.4	75.4	75.4
* OR > 0	57.4	73.4	75.2	75.4	75.4	75.4	75.4	75.4
TOTAL	480	614	629	630	630	630	630	630

TOTAL NUMBER OF OBS: 836 PCT FREQ NH <5/8: 24.6

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
6.9	4.1	4.7	3.4	4.9	4.2	8.6	16.0	47.1 .0	879

PERIOD: (PRIMARY) 1945-1973
(OVER-ALL) 1869-1973

AREA 0031 SAN DIEGO 200 SW
29.5N 127.3W

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	*	.4	.0	.0	.0	.0	.0	.0	.0	.4	
	TOT %	.0	*	.4	.0	.0	.0	.0	.0	.0	.0	.4	
1/2<1	PCP	.2	*	.0	.0	.0	.0	.0	.0	.0	.0	.3	
	NO PCP	1.7	.1	*	.0	.0	.0	.0	.2	.0	.0	2.1	
	TOT %	1.9	.2	*	.0	.0	.0	.0	.2	.0	.0	2.3	
1<2	PCP	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	NO PCP	.2	.1	.1	.0	.0	.0	.0	.0	.0	.0	.4	
	TOT %	.3	.1	.1	.0	.0	.0	.0	.0	.0	.0	.4	
2<5	PCP	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	NO PCP	.6	*	.1	.0	.0	.0	.0	.8	.0	.1	1.6	
	TOT %	.6	.1	.1	.0	.0	.0	.0	.8	.0	.1	1.7	
5<10	PCP	.3	.3	.0	.0	.0	.0	.0	.2	.0	.0	.8	
	NO PCP	14.6	1.7	1.0	.2	.0	.0	.5	7.0	.0	.2	25.1	
	TOT %	14.9	2.0	1.0	.2	.0	.0	.5	7.2	.0	.2	25.9	
10+	PCP	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	NO PCP	36.8	7.9	1.2	.0	.2	.2	1.8	20.1	.0	1.1	69.1	
	TOT %	36.8	8.0	1.2	.0	.2	.2	1.8	20.1	.0	1.1	69.2	
	TOT OBS												1117
	TOT PCT	54.4	10.4	2.7	.2	.2	.2	2.2	28.3	.0	1.3	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	*	.2	.0	.0	.0	.0	.0	.0		.3	
	11-21	.0	.0	.2	.0	.0	.0	.0	.0	.0		.2	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	*	.4	.0	.0	.0	.0	.0	.0	.0	.4	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.8	.1	*	.0	.0	.0	.0	.0	.0		.9	
	11-21	1.1	.1	.0	.0	.0	.0	.0	.1	.0		1.3	
	22+	.1	.0	.0	.0	.0	.0	.0	.1	.0		.2	
	TOT %	1.9	.2	*	.0	.0	.0	.0	.2	.0	.0	2.3	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.2	.1	.1	.0	.0	.0	.0	.0	.0		.4	
	11-21	.1	.1	.0	.0	.0	.0	.0	.0	.0		.2	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.3	.2	.1	.0	.0	.0	.0	.0	.0	.0	.5	
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	
	4-10	.2	*	.0	.0	.0	.0	.0	.4	.0		.6	
	11-21	.3	.1	.1	.0	.0	.0	.0	.5	.0		1.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.6	.1	.1	.0	.0	.0	.0	.8	.0	.1	1.7	
5<10	0-3	.3	.1	.1	.0	.0	.0	.0	.1	.0	.2	.8	
	4-10	6.8	.9	.5	.0	.0	.0	.1	3.4	.0		11.8	
	11-21	7.6	1.0	.2	.0	.0	.0	.3	3.4	.0		12.5	
	22+	.1	.0	.2	.2	.0	.0	.0	.3	.0		.7	
	TOT %	14.8	2.0	1.0	.2	.0	.0	.5	7.2	.0	.2	25.8	
10+	0-3	.6	.1	.1	.0	.0	.1	.2	.2	.0	1.1	2.4	
	4-10	14.3	4.2	.8	.0	.2	.1	1.2	9.1	.0		29.8	
	11-21	19.8	3.5	.3	.0	.0	.0	.4	9.7	.0		33.8	
	22+	1.9	.2	.0	.0	.0	.0	.0	1.0	.0		3.1	
	TOT %	36.7	8.0	1.2	.0	.2	.2	1.8	20.1	.0	1.1	69.1	
	TOT OBS												1118
	TOT PCT	54.4	10.5	2.7	.2	.2	.2	2.2	28.3	.0	1.3	100.0	

AUGUST

PERIOD: (PRIMARY) 1945-1973
(OVER-ALL) 1869-1973

AREA 0031 SAN DIEGO 200 SW
29.5N 122.3W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00&03	.0	.0	1.9	16.3	37.7	12.5	3.5	.0	.0	.0	72.0	28.0	257
06&09	.0	.0	1.7	22.4	36.2	8.0	2.9	.0	.0	.0	71.3	28.7	174
12&15	.0	.0	5.0	20.6	38.8	11.9	2.5	.6	.0	.0	79.4	20.6	160
18&21	.0	.0	3.2	17.6	40.4	12.8	2.8	.0	.8	.0	77.6	22.4	250
TOT	0	0	24	158	323	97	25	1	2	0	630	211	841
PCT	.0	.0	2.9	18.8	38.4	11.5	3.0	.1	.2	.0	74.9	25.1	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00&03	.6	1.5	.6	.6	23.2	73.5	336
06&09	.4	2.5	.4	2.1	27.7	66.9	242
12&15	.4	4.0	.8	2.8	32.9	59.0	249
18&21	.3	1.7	.3	2.3	20.8	74.6	303
TOT	5	26	6	21	290	782	1130
PCT	.4	2.3	.5	1.9	25.7	69.2	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET, NH >4/8), BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	.0	1.9	18.3	53.7	28.0	257
06&09	.0	1.7	25.6	46.5	27.9	172
12&15	.0	5.0	27.5	52.5	20.0	160
18&21	.0	3.2	22.7	55.9	21.5	247
TOT	0	24	191	440	205	836
PCT	.0	2.9	22.8	52.6	24.5	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
80/84	.0	.0	.0	.0	.1	.0	.0	.0	1	.1
75/79	.0	.0	.0	.3	.6	.1	.1	.0	10	1.2
70/74	.0	.0	.0	.0	1.7	5.8	2.0	.6	87	10.1
65/69	.0	.0	.0	.2	1.7	18.5	24.4	9.0	463	53.8
60/64	.0	.0	.0	.0	.8	6.5	17.6	9.7	297	34.5
55/59	.0	.0	.0	.0	.0	.0	.0	.2	2	.2
TOTAL	0	0	0	5	43	266	379	167	860	100.0
PCT	.0	.0	.0	.6	5.0	30.9	44.1	19.4		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0
	.9	*	.1	.0	.0	.0	.1	.1	.0	.0
	5.4	1.7	.6	.1	.0	.0	.2	1.9	.0	.2
	27.6	5.2	1.3	.0	.1	.2	1.1	17.5	.0	.9
	17.8	3.3	.4	.0	.0	.1	1.2	11.4	.0	.3
	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0
	51.6	10.4	2.3	.1	.1	.3	2.6	31.1	.0	1.5

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00&03	79	77	73	67	62	60	60	67.1	340
06&09	82	74	68	65	61	60	60	64.8	244
12&15	84	73	68	64	61	60	57	64.4	256
18&21	79	77	72	66	63	60	58	66.8	336
TOT	84	77	72	65	62	60	57	66.0	1176

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00&03	.0	.0	9.1	40.7	41.1	9.1	79	253
06&09	.0	.0	2.1	22.2	49.7	25.9	84	189
12&15	.0	.6	2.2	17.7	47.5	32.0	85	181
18&21	.0	1.6	4.9	36.9	40.6	16.0	80	244
TOT	0	5	43	267	383	169	82	867

AUGUST

PERIOD: (PRIMARY) 1945-1973
(OVER-ALL) 1869-1973

AREA 0031 SAN DIEGO 200 SW
29.5N 122.3W

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	57 60	61 64	65 68	69 72	73 76	77 80	TOT	W FOG	WO FOG
11/13	.0	.0	.0	.1	.2	.2	5	.0	.5
9/10	.0	.0	.0	.0	.4	.2	6	.0	.6
7/8	.0	.1	.1	.7	.3	.1	13	.0	1.2
6	.0	.0	.3	.8	.6	.0	17	.0	1.6
5	.0	.1	.6	1.8	.2	.1	29	.0	2.7
4	.0	.3	1.0	1.3	.6	.0	34	.2	3.0
3	.0	.0	2.1	1.4	.0	.0	37	.1	3.4
2	.1	.7	3.6	2.3	.2	.0	72	.2	6.6
1	.0	1.3	5.9	1.8	.1	.0	97	.3	8.9
0	.2	4.2	10.1	1.1	.0	.0	166	.6	15.1
-1	.0	4.7	9.8	.5	.0	.0	159	1.0	13.9
-2	.1	7.2	6.3	.2	.0	.0	146	.4	13.4
-3	.4	5.7	4.9	.2	.0	.0	118	.0	11.1
-4	.3	6.0	2.4	.0	.0	.0	92	.2	8.5
-5	.1	2.9	1.4	.0	.0	.0	47	.0	4.4
-6	.1	.8	.2	.0	.0	.0	11	.0	1.0
-7/-8	.1	.7	.0	.0	.0	.0	8	.1	.7
-9/-10	.0	.4	.0	.0	.0	.0	4	.0	.4
TOTAL	14	371	516	128	26	6	1061	32	1029
PCT	1.3	35.0	48.6	12.1	2.5	.6	100.0	3.0	97.0

PERIOD: (OVER-ALL) 1963-1973

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	1.9	.0	.0	.0	.0	2.2
1-2	.3	9.5	4.5	.0	.0	.0	14.3
3-4	.2	7.1	12.4	.6	.0	.0	20.3
5-6	.0	1.4	9.1	.3	.0	.0	10.8
7	.0	.1	3.5	.6	.0	.0	4.2
8-9	.0	.0	.6	.5	.0	.0	1.0
10-11	.0	.0	.7	.8	.0	.0	1.5
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.7	20.1	30.8	2.8	.0	.0	54.4

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	*	.4	.0	.0	.0	.0	.4
1-2	.0	2.1	1.6	.0	.0	.0	3.7
3-4	.0	2.5	2.5	.0	.0	.0	5.1
5-6	.0	.5	.9	.2	.0	.0	1.6
7	.0	.0	.2	.2	.0	.0	.4
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	*	5.5	5.2	.3	.0	.0	11.1

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	.2	.0	.0	.0	.0	.3
1-2	.2	1.3	.1	.0	.0	.0	1.6
3-4	.0	.3	.0	.0	.0	.0	.3
5-6	.0	.0	.1	.2	.0	.0	.3
7	.0	.0	.2	.2	.0	.0	.3
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	1.7	.4	.3	.0	.0	2.8

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	.2	.0	.0	.2
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.0	.0	.2	.0	.0	.2

PERIOD: (OVER-ALL) 1963-1973 AUGUST AREA 0031 SAN DIEGO 200 SW

TABLE 18 (CONT) 29.5N 122.3W

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

S

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.1	.0	.0	.0	.0	.1
3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.1	.0	.0	.0	.0	.1

SW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.2	.0	.0	.0	.0	.2
3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.2	.0	.0	.0	.0	.2

W

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	.0	.0	.0	.0	.0	.2
1-2	.1	1.1	.2	.0	.0	.0	1.4
3-4	.0	.1	.2	.0	.0	.0	.3
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	1.2	.3	.0	.0	.0	1.8

NW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	.6	.0	.0	.0	.0	.6	
1-2	.1	7.8	3.0	.0	.0	.0	10.8	
3-4	.0	3.3	3.5	.3	.0	.0	7.2	
5-6	.2	.9	4.8	.5	.0	.0	6.3	
7	.0	*	.8	.6	.0	.0	1.4	
8-9	.0	.0	.7	.0	.0	.0	.7	
10-11	.0	.0	.6	.2	.0	.0	.8	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.2	12.5	13.4	1.6	.0	.0	27.7	98.4

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	2.6	3.0	.0	.0	.0	.0	5.6	
1-2	.6	22.5	9.3	.0	.0	.0	32.4	
3-4	.2	13.2	18.5	1.1	.0	.0	33.0	
5-6	.2	2.7	14.8	1.1	.0	.0	18.8	
7	.0	.2	4.6	1.4	.0	.0	6.2	
8-9	.0	.0	1.3	.5	.0	.0	1.8	
10-11	.0	.0	1.3	1.0	.0	.0	2.2	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	3.5	41.6	49.8	5.1	.0	.0	100.0	627

PERIOD: (OVER-ALL) 1950-1973 TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	1.3	10.5	16.2	10.0	2.7	1.3	1.2	.0	.4	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	330	4
6-7	.0	.8	6.5	9.5	5.5	3.3	1.5	.7	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	209	6
8-9	.0	.0	1.3	4.3	4.4	2.5	1.6	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	108	7
10-11	.0	.3	1.2	2.0	1.7	.5	.5	.7	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	56	7
12-13	.0	.0	.3	.0	.1	.4	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7	7
>13	.0	.0	.0	.3	.1	.1	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6	8
INDET	.8	.4	.7	1.1	1.2	.3	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	25	5
TOTAL	16	90	197	203	118	64	40	12	9	2	0	0	0	0	0	0	0	0	0	751	5
PCT	2.1	12.0	26.2	27.0	15.7	8.5	5.3	1.6	1.2	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

SEPTEMBER

PERIOD: (PRIMARY) 1942-1973
(OVER-ALL) 1869-1973

AREA 0031 SAN DIEGO 200 SW
29.5N 122.5W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA				
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	.2	.4	1.2	.0	.0	.0	.0	1.8	.2	.0	2.9	.0	1.5		.0	93.6
NE	7.0	.0	1.8	.0	.0	.0	.0	8.8	.0	.0	.0	.0	.0		.0	91.2
E	4.2	.0	.0	.0	.0	.0	.0	4.2	.0	.0	.0	.0	.0		.0	95.8
SE	45.0	.0	.0	.0	.0	.0	.0	45.0	.0	.0	.0	.0	.0		.0	55.0
S	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	100.0
SW	16.1	.0	.0	.0	.0	.0	.0	16.1	.0	.0	.0	.0	.0		.0	83.9
W	2.0	.0	.0	.0	.0	.0	.0	2.0	2.6	.0	.0	.0	.0		.0	95.4
NW	.1	.7	.8	.0	.0	.0	.0	1.6	.7	.0	2.7	.4	2.9		.0	91.7
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	100.0
TOT PCT	1.1	.4	1.0	.0	.0	.0	.0	2.6	.4	.0	2.3	.1	1.7		.0	92.8
TOT OBS:	895															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA				
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00&03	.8	.4	.4	.0	.0	.0	.0	1.5	.4	.0	3.5	.0	2.3		.0	92.3
06&09	1.4	.5	.9	.0	.0	.0	.0	2.8	.5	.0	1.9	.0	1.4		.0	93.4
12&15	1.4	.9	2.3	.0	.0	.0	.0	4.5	.0	.0	2.3	.5	1.8		.0	91.0
18&21	.9	.0	.5	.0	.0	.0	.0	1.4	.9	.0	1.4	.5	.9		.0	95.0
TOT PCT	1.1	.4	1.0	.0	.0	.0	.0	2.5	.4	.0	2.3	.2	1.6		.0	92.9
TOT OBS:	914															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	1.1	21.3	27.5	2.4	.0	.0		52.3	12.1	48.8	64.4	47.7	58.5	50.7	58.9	52.9	59.9
NE	.2	2.6	3.9	.4	.0	.0		7.1	12.8	7.8	6.9	6.3	6.8	8.0	4.8	6.3	9.2
E	.2	1.0	.8	.0	.0	.0		2.0	10.2	1.8	2.1	2.4	1.7	2.7	.0	1.7	1.4
SE	.2	.2	.2	.1	.0	.0		.6	11.4	.1	.0	.9	.6	.7	.0	.7	2.1
S	.0	.5	.0	.1	.0	.0		.5	9.1	.5	.0	1.5	.0	.4	.0	.4	.0
SW	.0	.7	.2	.1	.0	.0		.9	9.8	1.1	.0	.2	.0	1.1	2.4	1.3	1.4
W	.1	3.2	.7	.0	.0	.0		4.0	8.2	4.1	1.6	6.6	.0	3.0	2.4	5.3	2.5
NW	.5	15.2	13.5	1.2	.0	.0		30.3	11.6	33.0	22.9	33.2	30.1	29.5	31.5	29.7	23.6
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	2.1							2.1	.0	2.8	2.1	1.2	2.3	3.8	.0	1.7	.0
TOT OBS	41	420	440	40	0	0	941		11.5	212	47	164	44	182	42	179	71
TOT PCT	4.4	44.6	46.8	4.3	.0	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	7.6	34.9	9.7	.0	.0		52.3	12.1	51.6	50.0	52.2	54.9
NE	1.4	3.6	2.0	.1	.0		7.1	12.8	7.6	6.4	7.4	7.1
E	.4	1.4	.2	.0	.0		2.0	10.2	1.8	2.3	2.2	1.6
SE	.3	.1	.2	.0	.0		.6	11.4	.1	.8	.6	1.1
S	.3	.1	.1	.0	.0		.5	9.1	.4	1.2	.3	.3
SW	.3	.5	.1	.0	.0		.9	9.8	.9	.1	1.3	1.3
W	1.4	2.5	.2	.0	.0		4.0	8.2	3.7	5.2	2.9	4.5
NW	6.3	18.0	6.1	.0	.0		30.3	11.6	31.2	32.6	29.9	28.0
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	2.1						2.1	.0	2.7	1.4	3.1	1.2
TOT OBS	191	574	175	1	0	941		11.5	259	208	224	250
TOT PCT	20.3	61.0	18.6	.1	.0		100.0		100.0	100.0	100.0	100.0

SEPTEMBER

PERIOD: (PRIMARY) 1942-1973
(OVER-ALL) 1869-1973

AREA 0031 SAN DIEGO 200 SW
29.5N 122.5W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	2.7	1.2	40.2	51.4	4.6	.0	.0	12.0	100.0	259
06&09	1.4	2.9	50.0	39.9	5.8	.0	.0	11.4	100.0	208
12&15	3.1	1.3	48.2	43.8	3.6	.0	.0	11.2	100.0	224
18&21	1.2	3.6	41.6	50.4	3.2	.0	.0	11.4	100.0	250
TOT	20	21	420	440	40	0	0	11.5		941
PCT	2.1	2.2	44.6	46.8	4.3	.0	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	9.3	6.2	14.0	20.5		5.6
NE	1.0	1.2	1.7	2.4		5.5
E	.2	.3	1.0	.9		6.1
SE	.2	.0	*	.4		5.5
S	.0	.1	.1	.3		6.6
SW	.2	*	.3	.5		6.2
W	1.1	.6	.9	2.0		5.4
NW	7.1	3.1	10.0	12.6		5.5
VAR	.0	.0	.0	.0		.0
CALM	.3	.5	.5	.8		5.3
TOT OBS	128	79	189	266	662	5.6
TOT PCT	19.3	11.9	28.5	40.2	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.4	.1	.8	6.1	18.4	6.5	.4	.3	.1	.2	16.7	
NE	.0	.2	.2	1.0	1.5	.8	.0	.0	.0	.0	2.8	
E	.0	.2	.0	.5	.9	.2	.0	.0	.0	.0	.6	
SE	.0	.0	.0	*	.3	*	.0	.0	.0	.0	.2	
S	.0	.0	.2	.0	.1	.1	.0	.0	.0	.0	.1	
SW	.0	.0	.2	.2	.5	.0	.0	.0	.0	.0	.2	
W	.0	.0	.3	1.1	.8	.4	.2	.0	.1	.0	1.9	
NW	*	*	.9	4.4	9.9	4.2	1.1	.0	.2	.0	11.9	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.3	.6	.0	.2	.0	.0	.0	.9	
TOT OBS	3	3	16	90	219	80	12	2	3	1	233	662
TOT PCT	.5	.5	2.4	13.6	33.1	12.1	1.8	.3	.5	.2	35.2	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NH)

CEILING (FEET)	VSBY (NH) * OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >50YD	* OR >0
* OR >6500	.6	.6	.6	.6	.6	.6	.6	.6
* OR >4000	.7	.9	.9	.9	.9	.9	.9	.9
* OR >3500	1.6	2.7	2.7	2.7	2.7	2.7	2.7	2.7
* OR >2000	11.6	14.6	14.7	14.7	14.7	14.7	14.7	14.7
* OR >1000	37.3	46.4	47.4	48.0	48.0	48.0	48.0	48.0
* OR >600	46.5	58.5	60.6	61.2	61.4	61.4	61.4	61.4
* OR >300	48.1	60.9	63.0	63.6	63.7	63.7	63.7	63.7
* OR >150	48.6	61.5	63.6	64.2	64.3	64.3	64.3	64.3
* OR > 0	48.7	61.8	64.0	64.6	64.8	64.8	64.8	64.8
TOTAL	328	416	431	435	436	436	436	436

TOTAL NUMBER OF OBS: 673

PCT FREQ NH <5/8: 35.2

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
8.6	6.4	8.0	7.4	4.5	4.9	7.0	15.8	37.3 .1	669

PERIOD: (PRIMARY) 1942-1973
(OVER-ALL) 1869-1973

AREA 0031 SAN DIEGO 200 SW
29.5N 122.5W

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	PCP	.0	.1	.0	.0	.0	.0	.0	.1	.0	.0	.2	
	NO PCP	1.2	.0	.0	.0	.0	.0	.0	.7	.0	.0	1.9	
	TOT %	1.2	.1	.0	.0	.0	.0	.0	.8	.0	.0	2.1	
1<2	PCP	.0	.1	.0	.1	.0	.1	.0	.0	.0	.0	.3	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.1	.0	.1	.0	.1	.0	.0	.0	.0	.3	
2<5	PCP	.1	.2	.1	.1	.0	*	.1	.0	.0	.0	.7	
	NO PCP	.6	.1	.2	.0	.0	.0	.3	.5	.0	.0	1.7	
	TOT %	.8	.3	.3	.1	.0	*	.4	.5	.0	.0	2.3	
5<10	PCP	.6	.1	.0	.0	.0	.0	.0	.4	.0	.0	1.1	
	NO PCP	15.4	.8	.3	*	.0	.0	.2	10.0	.0	.6	27.3	
	TOT %	16.0	1.0	.3	*	.0	.0	.2	10.3	.0	.6	28.4	
10+	PCP	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	
	NO PCP	33.7	4.9	1.5	.3	.6	.7	3.6	19.7	.0	1.6	66.6	
	TOT %	33.9	4.9	1.5	.3	.6	.7	3.6	19.7	.0	1.6	66.8	
TOT OBS													894
TOT PCT		52.0	6.3	2.0	.6	.6	.9	4.3	31.3	.0	2.1	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	1.2	.0	.0	.0	.0	.0	.0	.6	.0		1.8	
	11-21	.0	.0	.0	.0	.0	.0	.0	.2	.0		.2	
	22+	.0	.1	.0	.0	.0	.0	.0	.0	.0		.1	
	TOT %	1.2	.1	.0	.0	.0	.0	.0	.8	.0	.0	2.1	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.1	.0	.1	.0	.0	.0	.0	.0		.2	
	22+	.0	.0	.0	.0	.0	.1	.0	.0	.0		.1	
	TOT %	.0	.1	.0	.1	.0	.1	.0	.0	.0	.0	.3	
2<5	0-3	.0	*	.1	.0	.0	.0	.0	.0	.0	.0	.1	
	4-10	.3	.0	.0	.1	.0	.0	.3	.3	.0		1.1	
	11-21	.4	.1	.2	*	.0	*	.1	*	.0		.9	
	22+	.0	.1	.0	.1	.0	.0	.0	.1	.0		.3	
	TOT %	.8	.3	.3	.3	.0	*	.4	.5	.0	.0	2.4	
5<10	0-3	.1	.0	.0	.0	.0	.0	.0	.1	.0	.6	.8	
	4-10	7.4	.3	.0	.0	.0	.0	.2	4.7	.0		12.6	
	11-21	7.6	.5	.3	*	.0	.0	.0	4.7	.0		13.1	
	22+	.9	.2	.0	.0	.0	.0	.0	.7	.0		1.8	
	TOT %	15.9	.9	.3	*	.0	.0	.2	10.3	.0	.6	28.2	
10+	0-3	1.0	.2	.1	.2	.0	.0	.1	.4	.0	1.7	3.6	
	4-10	12.5	2.3	1.0	.1	.3	.6	2.8	10.2	.0		30.0	
	11-21	19.1	2.4	.4	.0	.0	.1	.7	8.9	.0		31.6	
	22+	1.3	.0	.0	*	.1	.0	.0	.4	.0		1.8	
	TOT %	33.9	4.9	1.5	.3	.6	.7	3.6	19.8	.0	1.7	66.9	
TOT OBS													900
TOT PCT		51.8	6.3	2.0	.7	.6	.9	4.2	31.3	.0	2.2	100.0	

SEPTEMBER

PERIOD: (PRIMARY) 1942-1973
(OVER-ALL) 1869-1973

AREA 0031 SAN DIEGO 200 SW
29.5N 122.5W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET,NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00&03	1.0	.0	3.1	14.1	27.1	12.5	1.6	.0	.5	.0	59.9	40.1	192
06&09	.0	1.2	3.7	11.7	32.7	9.3	1.9	.0	.6	.0	61.1	38.9	162
12&15	.7	1.4	1.4	17.8	37.7	10.3	1.4	.0	.7	.0	71.2	28.8	146
18&21	.0	.0	1.7	10.1	36.5	15.2	2.2	1.1	.0	.6	67.4	32.6	178
TOT	3	4	17	90	225	81	12	2	3	1	438	240	678
PCT	.4	.6	2.5	13.3	33.2	11.9	1.8	.3	.4	.1	64.6	35.4	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00&03	.0	3.1	.0	1.5	26.9	68.5	260
06&09	.0	2.3	.0	4.2	29.6	63.8	213
12&15	.0	1.8	.9	1.3	35.9	60.1	223
18&21	.0	.9	.9	2.7	20.2	75.3	223
TOT	0	19	4	22	258	616	919
PCT	.0	2.1	.4	2.4	28.1	67.0	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET,NH >4/8), BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	1.0	4.7	19.9	41.4	38.7	191
06&09	.0	5.6	20.0	41.9	38.1	160
12&15	.7	3.4	23.4	49.0	27.6	145
18&21	.0	1.1	13.6	53.7	32.8	177
TOT	3	25	128	312	233	673
PCT	.4	3.7	19.0	46.4	34.6	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
80/84	.0	.0	.0	.0	.0	.3	.0	.0	2	.3
75/79	.0	.0	.0	.2	1.1	.6	.0	.0	12	1.8
70/74	.0	.0	.0	.9	3.5	6.6	4.9	1.5	114	17.5
65/69	.0	.0	.0	.3	5.7	17.9	16.7	10.6	334	51.2
60/64	.0	.0	.0	.0	.9	9.5	13.2	5.4	189	29.0
55/59	.0	.0	.0	.0	.0	.0	.2	.0	1	.2
TOTAL	0	0	0	9	73	228	228	114	652	100.0
PCT	.0	.0	.0	1.4	11.2	35.0	35.0	17.5		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.2	.2	.0	.0	.0	.0	.0	.0	.0	.0
.3	.2	.2	.0	.0	.0	.1	.9	.0	.2
7.9	1.5	.5	.1	.1	.2	.4	5.9	.0	.8
24.4	3.1	1.5	.5	.7	.5	3.0	16.4	.0	1.1
16.6	1.5	.5	.0	.0	.2	.9	9.5	.0	.2
.0	.0	.0	.0	.0	.0	.0	.2	.0	.0
49.4	6.4	2.5	.5	.8	.9	4.4	32.9	.0	2.1

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00&03	82	76	74	68	63	61	60	67.9	263
06&09	84	78	70	65	62	60	59	65.4	214
12&15	82	80	70	65	61	60	60	65.2	225
18&21	76	75	73	67	63	61	60	67.3	249
TOT	84	76	72	66	62	60	59	66.5	951

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00&03	.0	4.0	16.6	32.6	36.0	10.9	78	175
06&09	.0	.0	5.7	31.2	38.9	24.2	82	157
12&15	.0	.6	6.4	34.0	34.6	24.4	81	156
18&21	.0	.6	15.1	41.9	31.3	11.2	78	179
TOT	0	9	73	234	234	115	80	667

PERIOD: (PRIMARY) 1942-1973
(OVER-ALL) 1869-1973

AREA 0031 SAN DIEGO 200 SW
29.5N 122.5W

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	57 60	61 64	65 68	69 72	73 76	77 80	81 84	TOT	W FOG	WO FOG
14/18	.0	.0	.0	.0	.0	.0	.1	1	.0	.1
11/13	.0	.0	.0	.1	.1	.0	.0	2	.0	.2
9/10	.0	.0	.0	.1	.4	.0	.0	4	.0	.3
7/8	.0	.0	.1	.4	.0	.1	.0	5	.0	.6
6	.0	.0	.4	.4	.2	.0	.0	6	.0	.9
5	.0	.0	.2	1.4	1.4	.0	.0	26	.0	3.1
4	.0	.1	1.2	2.3	.7	.0	.0	38	.1	4.4
3	.1	.0	1.1	1.3	.7	.0	.0	29	.0	3.4
2	.0	.1	2.9	2.7	.0	.0	.0	49	.1	5.6
1	.0	.4	4.6	2.8	.4	.0	.0	69	.2	7.9
0	.0	3.6	8.7	2.2	.2	.0	.0	126	.2	14.6
-1	.0	4.0	10.9	1.1	.0	.0	.0	138	.7	15.3
-2	.1	6.1	8.9	1.3	.1	.0	.0	141	.6	16.0
-3	.4	5.2	2.8	.3	.0	.0	.0	72	.4	8.1
-4	.3	4.0	3.2	.2	.0	.0	.0	67	.0	7.9
-5	.1	2.8	1.5	.4	.0	.0	.0	41	.0	4.8
-6	.1	1.2	.6	.0	.0	.0	.0	16	.0	1.9
-7/-8	.0	1.4	.7	.0	.0	.0	.0	18	.0	2.1
-11/-13	.0	.1	.1	.0	.0	.0	.0	2	.0	.2
TOTAL	11	247	405	149	36	1	1	850	20	830
PCT	1.3	29.1	47.6	17.5	4.2	.1	.1	100.0	2.4	97.6

PERIOD: (OVER-ALL) 1963-1973

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.4	1.0	.0	.0	.0	.0	1.3
1-2	.6	8.2	5.6	.0	.0	.0	14.4
3-4	.0	4.7	12.4	1.0	.0	.0	18.1
5-6	.0	1.5	9.8	.2	.0	.0	11.4
7	.0	.2	2.5	.7	.0	.0	3.4
8-9	.0	.3	.0	.0	.0	.0	.3
10-11	.0	.3	.2	.2	.0	.0	.7
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.2	.0	.0	.0	.2
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.9	16.2	30.8	2.1	.0	.0	50.0

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	.0	.0	.0	.0	.0	.3
1-2	.1	1.7	.5	.0	.0	.0	2.2
3-4	.0	.8	1.6	.2	.0	.0	2.6
5-6	.0	.1	.3	.2	.0	.0	.6
7	.0	.0	.1	.0	.0	.0	.1
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.4	2.5	2.4	.4	.0	.0	5.7

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	.0	.0	.0	.0	.0	.2
1-2	.0	1.0	.4	.0	.0	.0	1.3
3-4	.0	.6	.5	.0	.0	.0	1.0
5-6	.0	.0	.2	.0	.0	.0	.2
7	.0	.0	.2	.0	.0	.0	.2
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	1.6	1.2	.0	.0	.0	3.0

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.2	.0	.0	.0	.0	.2
3-4	.0	.0	.1	.0	.0	.0	.1
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.3	.0	.0	.3
8-9	.0	.0	.2	.0	.0	.0	.2
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.2	.3	.3	.0	.0	.7

PERIOD: (OVER-ALL) 1963-1973

SEPTEMBER

TABLE 18 (CONT)

AREA 0031 SAN DIEGO 200 SW
29.5N 122.5W

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

	S							SW						
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.7	.0	.0	.0	.0	.7	.0	.1	.0	.0	.0	.0	.1
3-4	.0	.2	.0	.0	.0	.0	.2	.0	.4	.0	.0	.0	.0	.4
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0	.2
7	.0	.0	.0	.2	.0	.0	.2	.0	.0	.1	.0	.0	.0	.1
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.2
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.9	.0	.2	.0	.0	1.0	.0	.7	.1	.2	.0	.0	1.0

	W							NW							TOTAL
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	PCT
<1	.2	1.4	.0	.0	.0	.0	1.6	.2	2.0	.0	.0	.0	.0	2.2	
1-2	.0	1.7	.4	.0	.0	.0	2.1	.4	6.8	1.6	.0	.0	.0	8.8	
3-4	.0	.4	.2	.0	.0	.0	.6	.0	3.9	6.0	.2	.0	.0	10.1	
5-6	.0	.0	.2	.0	.0	.0	.2	.0	1.7	4.2	.3	.0	.0	6.2	
7	.0	.4	.3	.0	.0	.0	.7	.0	.4	2.2	.6	.0	.0	3.2	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.1	.6	.0	.0	.0	.7	
10-11	.0	.2	.0	.0	.0	.0	.2	.0	.1	.0	.0	.0	.0	.1	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.2	4.1	1.1	.0	.0	.0	5.4	.6	15.1	14.6	1.0	.0	.0	31.3	98.1

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	3.9	4.3	.0	.0	.0	.0	8.2	
1-2	1.0	20.4	8.4	.0	.0	.0	29.9	
3-4	.0	10.8	20.4	1.4	.0	.0	32.7	
5-6	.0	3.5	14.5	.6	.0	.0	18.6	
7	.0	1.0	5.3	1.6	.0	.0	8.0	
8-9	.0	.4	.8	.0	.0	.0	1.2	
10-11	.0	.6	.2	.4	.0	.0	1.2	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.2	.0	.0	.0	.2	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	4.9	41.1	49.9	4.1	.0	.0	100.0	489

PERIOD: (OVER-ALL) 1950-1973

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	.5	7.5	14.6	7.2	3.0	.7	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	203	4
6-7	.0	2.3	8.8	12.8	8.0	2.2	2.3	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	220	5
8-9	.0	.2	1.5	4.3	6.2	2.0	2.0	.8	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	107	7
10-11	.0	.0	.8	1.8	1.2	.7	.2	.2	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	31	6
12-13	.0	.0	.3	.2	.2	.5	.7	.2	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	14	9
>13	.0	.0	.0	.3	.2	.5	.0	.0	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	8	9
INDET	1.7	.5	.5	.0	.2	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	18	2
TOTAL	13	63	160	160	113	39	34	7	10	2	0	0	0	0	0	0	0	0	0	601	5
PCT	2.2	10.5	26.6	26.6	18.8	6.5	5.7	1.2	1.7	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

OCTOBER

PERIOD: (PRIMARY) 1891-1973
(OVER-ALL) 1857-1973

AREA 0031 SAN DIEGO 200 SW
29.5N 122.4W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	.1	1.2	.8	.0	.0	.0	.0	2.2	.5	.0	1.6	.2	1.0	.0		94.6
NE	.0	1.6	1.0	.0	.0	.0	.0	2.6	.3	.0	2.1	.5	2.1	.0		92.4
E	5.3	.0	.0	.0	.0	.0	.0	5.3	.0	.0	.0	.0	9.2	.0		85.5
SE	.0	6.3	.0	.0	.0	.0	.0	6.3	.0	.0	.0	.0	3.1	.0		90.6
S	.0	1.8	6.4	.0	.0	.0	.0	8.3	.0	.0	.0	.0	.0	.0		91.7
SW	2.5	.0	.6	.0	.0	.0	.0	3.1	.0	.0	8.6	.0	5.5	.0		82.8
W	1.3	.7	.7	.0	.0	.0	.0	2.6	1.3	.0	.7	.0	3.3	.0		92.1
NW	.7	1.2	.7	.0	.0	.0	.0	2.6	1.0	.0	1.7	.1	1.2	.3		93.1
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.3	.0	.0		94.7
TOT PCT	.5	1.2	.9	.0	.0	.0	.0	2.6	.6	.0	1.8	.3	1.6	.1		93.1
TOT OBS:	1124															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00&03	.0	.6	.9	.0	.0	.0	.0	1.5	.6	.0	2.1	.0	2.4	.3		93.2
06&09	.4	1.3	.8	.0	.0	.0	.0	2.5	.4	.0	2.5	.0	2.1	.0		92.5
12&15	1.0	2.3	1.3	.0	.0	.0	.0	4.6	.7	.0	1.3	1.0	.7	.0		91.8
18&21	.8	.4	.4	.0	.0	.0	.0	1.5	.8	.0	1.1	.0	1.1	.0		95.5
TOT PCT	.5	1.1	.9	.0	.0	.0	.0	2.5	.6	.0	1.7	.3	1.6	.1		93.2
TOT OBS:	1146															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	2.0	20.0	20.4	2.7	.0	.0		45.1	12.0	48.3	44.5	44.9	48.5	42.5	48.6	41.0	45.1
NE	.7	4.5	3.3	.3	.0	.0		8.8	10.0	7.4	7.8	8.1	16.2	6.6	12.1	7.9	10.8
E	.3	1.2	.4	.0	.0	.0		1.9	8.3	1.3	1.3	1.6	1.5	2.8	.5	1.6	3.4
SE	.1	.5	*	.0	.0	.0		.7	6.3	.3	.6	1.2	2.2	.7	.0	.7	.3
S	.1	1.9	.3	.1	.0	.0		2.4	7.9	1.3	.6	5.0	2.2	2.4	1.1	3.6	1.8
SW	.4	2.6	.7	.0	.0	.0		3.7	8.2	3.7	1.9	1.2	3.7	2.9	5.8	4.4	6.1
W	.7	4.9	1.1	.0	.0	.0		6.7	7.6	7.4	13.0	6.4	4.4	8.5	5.8	3.7	5.2
NW	1.1	13.2	13.6	1.1	.0	.0		29.0	11.6	29.1	30.2	28.6	21.3	30.2	25.0	35.4	26.1
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.7							1.7	.0	1.1	.0	3.1	.0	3.4	1.1	1.7	1.2
TOT OBS	86	588	481	50	0	0	1205		10.9	261	77	161	68	208	91	175	164
TOT PCT	7.1	48.8	39.9	4.1	.0	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	8.0	26.4	10.2	.5	.0		45.1	12.0	47.4	46.0	44.4	43.0
NE	2.4	5.3	1.1	.0	.0		8.8	10.0	7.5	10.5	8.3	9.3
E	.8	.9	.2	.0	.0		1.9	8.3	1.3	1.5	2.1	2.4
SE	.4	.3	.0	.0	.0		.7	6.3	.4	1.5	.5	.5
S	1.1	1.2	.0	.1	.0		2.4	7.9	1.2	4.1	2.0	2.7
SW	1.2	2.3	.2	.0	.0		3.7	8.2	3.3	2.0	3.8	5.2
W	2.7	3.9	*	.0	.0		6.7	7.6	8.7	5.8	7.7	4.4
NW	4.8	19.0	5.1	.2	.0		29.0	11.6	29.4	26.4	28.6	30.9
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	1.7						1.7	.0	.9	7.2	2.7	1.5
TOT OBS	279	715	202	9	0	1205		10.9	338	229	299	339
TOT PCT	23.2	59.3	16.8	.7	.0		100.0		100.0	100.0	100.0	100.0

OCTOBER

PERIOD: (PRIMARY) 1891-1973
(OVER-ALL) 1857-1973

AREA 0031 SAN DIEGO 200 SW
29.5N 122.4W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
				WIND SPEED (KNOTS)						
00&03	.9	4.4	42.9	46.4	5.3	.0	.0	11.9	100.0	338
06&09	2.2	7.0	48.5	36.7	5.7	.0	.0	10.8	100.0	229
12&15	2.7	4.7	53.2	36.8	2.7	.0	.0	10.3	100.0	299
18&21	1.5	5.9	51.0	38.3	3.2	.0	.0	10.4	100.0	339
TOT	21	65	588	481	50	0	0	10.9		1205
PCT	1.7	5.4	48.8	39.9	4.1	.0	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	11.5	7.0	13.4	12.8		4.9
NE	2.6	1.1	2.6	2.4		4.7
E	.4	.3	.4	.8		5.0
SE	.2	.1	.3	.1		4.6
S	.5	.5	1.0	.4		4.9
SW	.5	.3	.7	1.1		5.6
W	.6	.8	2.4	1.2		5.7
NW	8.0	3.9	8.9	11.0		5.1
VAR	.0	.0	.0	.0		.0
CALM	.8	.3	.4	.6		4.3
TOT OBS	183	104	219	221	727	5.0
TOT PCT	25.2	14.3	30.1	30.4	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.1	1.0	5.1	12.0	4.8	.9	.0	.0	.0	20.9	
NE	.0	.0	.2	.8	1.9	.9	.3	.1	.0	.0	4.4	
E	.0	.0	.0	.7	.2	.0	.0	.0	.0	.0	1.0	
SE	.0	.0	.0	.0	.2	.0	.1	.0	.0	.0	.4	
S	.0	.0	.0	.1	.6	.4	.0	.0	.0	.0	1.3	
SW	.0	.0	.1	.6	.7	.2	.0	.2	.0	.0	.8	
W	.0	.0	.0	.7	2.3	.4	.0	.2	.0	.0	1.4	
NW	.1	.0	.5	4.0	8.8	4.5	.6	.3	.1	.0	12.9	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.1	.1	.6	.1	.0	.0	.0	.0	1.1	
TOT OBS	1	1	14	88	198	83	14	6	1	0	321	727
TOT PCT	.1	.1	1.9	12.1	27.2	11.4	1.9	.8	.1	.0	44.2	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM) = OR >10	= OR >5	= OR >2	= OR >1	= OR >1/2	= OR >1/4	= OR >50YD	= OR >0
= OR >6500	.1	.1	.1	.1	.1	.1	.1	.1
= OR >5000	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
= OR >3500	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9
= OR >2000	13.1	14.3	14.3	14.4	14.4	14.4	14.4	14.4
= OR >1000	33.7	41.0	41.4	41.5	41.5	41.5	41.5	41.5
= OR >600	40.5	52.8	53.3	53.5	53.5	53.5	53.5	53.5
= OR >300	41.6	54.4	55.2	55.4	55.4	55.4	55.4	55.4
= OR >150	41.6	54.6	55.4	55.5	55.5	55.5	55.5	55.5
= OR > 0	41.6	54.7	55.5	55.6	55.6	55.6	55.6	55.6
TOTAL	306	402	408	409	409	409	409	409

TOTAL NUMBER OF OBS: 735

PCT FREQ NH <5/8: 44.4

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
12.2	7.2	9.4	10.2	5.4	8.4	8.8	11.2	27.1 .1	776

PERIOD: (PRIMARY) 1891-1973
(OVER-ALL) 1857-1973

AREA 0031 SAN DIEGO 200 SW
29.5N 122.4W

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
<1/2	NO PCP	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.2	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.2	
	PCP	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.2	
1/2<1	NO PCP	.3	.0	.0	.0	.0	.3	*	.1	.0	.0	.8	
	TOT %	.4	.1	.0	.0	.0	.3	*	.1	.0	.0	1.0	
	PCP	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.2	
1<2	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.2	
	PCP	.0	.0	.0	.0	.1	.0	.1	.1	.0	.0	.3	
2<5	NO PCP	.3	.1	.1	.0	.0	.1	.2	.2	.0	.0	1.0	
	TOT %	.3	.1	.1	.0	.1	.1	.3	.3	.0	.0	1.2	
	PCP	.8	.1	.1	*	*	.0	.1	.4	.0	.0	1.6	
5<10	NO PCP	18.0	3.5	.8	.3	.4	1.8	2.9	9.7	.0	.0	37.4	
	TOT %	18.8	3.6	.9	.4	.4	1.8	3.0	10.1	.0	.0	39.0	
	PCP	.1	.0	.0	.0	.1	.1	.0	.1	.0	.0	.4	
10+	NO PCP	25.7	4.8	.7	.3	1.8	1.3	3.5	18.3	.0	1.7	58.1	
	TOT %	25.8	4.8	.7	.3	1.9	1.4	3.5	18.3	.0	1.7	58.4	
	TOT OBS												1123
	TOT PCT	45.3	8.5	1.7	.7	2.4	3.6	6.7	29.3	.0	1.7	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
<1/2	4-10	.0	.0	.0	.0	.0	.0	.0	.2	.0		.2	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.2	
	0-3	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.1	
1/2<1	4-10	*	*	.0	.0	.0	.2	*	.0	.0		.4	
	11-21	.2	*	.0	.0	.0	.0	.0	.1	.0		.4	
	22+	.1	.0	.0	.0	.0	.0	.0	*	.0		.2	
	TOT %	.4	.1	.0	.0	.0	.3	*	.1	.0	.0	1.0	
	0-3	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.1	
1<2	4-10	.0	.0	.0	.0	.0	.0	.0	.1	.0		.1	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.2	
	0-3	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.1	
2<5	4-10	.1	.1	.1	.0	.1	.0	.1	.2	.0		.7	
	11-21	.2	.0	.0	.0	.0	.1	.1	.1	.0		.4	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.3	.1	.1	.0	.1	.1	.3	.3	.0	.0	1.2	
	0-3	1.3	.4	.1	*	*	.1	.2	.5	.0	.0	2.8	
5<10	4-10	10.1	2.2	.6	.3	.4	1.5	2.4	4.4	.0		21.8	
	11-21	7.0	.9	.2	*	*	.2	.4	5.1	.0		13.9	
	22+	.4	.1	.0	.0	.0	.0	.0	*	.0		.5	
	TOT %	18.8	3.6	.9	.4	.4	1.8	3.0	10.1	.0	.0	39.0	
	0-3	.6	.3	.1	.1	.1	.1	.3	.4	.0	1.7	3.7	
10+	4-10	9.2	1.9	.4	.2	1.5	1.0	2.5	8.2	.0		25.0	
	11-21	13.6	2.4	.3	.0	.2	.2	.6	8.7	.0		26.0	
	22+	2.4	.2	.0	.0	.1	.0	.0	1.1	.0		3.7	
	TOT %	25.8	4.8	.7	.3	1.9	1.4	3.5	18.3	.0	1.7	98.4	
	TOT OBS												1123
	TOT PCT	45.3	8.5	1.7	.7	2.4	3.6	6.7	29.3	.0	1.7	100.0	

OCTOBER

PERIOD: (PRIMARY) 1891-1973
(OVER-ALL) 1857-1973

TABLE 10

AREA 0031 SAN DIEGO 200 SW
29.5N 122.4W

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00&03	.0	.5	1.8	12.7	22.3	11.8	3.2	1.4	.5	.0	54.1	45.9	220
06&09	.6	.0	1.7	13.1	24.4	12.5	.6	.6	.0	.0	53.4	46.6	176
12&15	.0	.0	1.8	11.6	32.3	10.4	1.2	.0	.0	.0	57.3	42.7	164
18&21	.0	.0	2.1	9.3	27.8	10.3	2.1	1.0	.0	.0	52.6	47.4	194
TOT	1	1	14	88	199	85	14	6	1	0	409	345	754
PCT	.1	.1	1.9	11.7	26.4	11.3	1.9	.8	.1	.0	54.2	45.8	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00&03	.0	1.2	.3	1.8	39.6	57.1	338
06&09	.4	.0	.4	2.1	36.3	60.8	240
12&15	.3	1.3	.0	.7	45.9	51.8	303
18&21	.0	1.1	.0	.4	34.1	64.4	264
TOT	2	11	2	14	450	666	1145
PCT	.2	1.0	.2	1.2	39.3	58.2	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET, NH >4/8), BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	.0	2.3	17.4	39.4	43.2	213
06&09	.6	2.9	18.0	38.4	43.6	172
12&15	.0	2.5	14.9	44.7	40.4	161
18&21	.0	2.1	12.2	41.8	46.0	189
TOT	1	18	115	301	319	735
PCT	.1	2.4	15.6	41.0	43.4	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
75/79	.0	.0	.0	.1	.7	.5	.3	.0	12	1.6
70/74	.0	.0	.0	.3	1.7	5.0	1.5	.3	66	8.7
65/69	.0	.0	.1	.3	5.2	16.5	17.2	9.0	365	48.3
60/64	.0	.0	.0	.7	3.7	12.4	16.8	6.2	301	39.8
55/59	.0	.0	.0	.0	.3	.0	.4	.9	12	1.6
TOTAL	0	0	1	10	87	261	273	124	756	100.0
PCT	.0	.0	.1	1.3	11.5	34.5	36.1	16.4		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.8	*	.2	*	.0	.3	.1	.1	.0	.0
3.3	1.1	.4	*	.2	.3	1.0	2.3	.0	.1
19.6	4.2	.6	.6	1.6	1.6	3.2	18.4	.0	1.5
19.4	2.3	.6	.1	.6	.5	1.7	14.3	.0	.4
.6	.2	.0	.0	.0	.0	.2	.4	.0	.3
43.6	7.9	1.8	.7	2.4	2.7	6.2	32.5	.0	2.2

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00&03	79	75	72	66	61	60	57	66.0	338
06&09	76	72	68	64	61	59	59	64.6	240
12&15	76	70	68	64	60	59	58	64.1	305
18&21	79	75	71	66	62	61	59	66.0	339
TOT	79	75	71	65	61	59	57	65.3	1222

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00&03	.0	1.8	12.6	37.8	35.6	12.2	79	222
06&09	.0	.6	9.1	32.4	34.1	23.9	81	176
12&15	.0	.6	9.6	25.4	43.5	20.9	81	177
18&21	.0	2.6	15.6	41.1	30.2	10.4	77	192
TOT	0	11	91	265	274	126	80	767

PERIOD: (PRIMARY) 1891-1973
(OVER-ALL) 1857-1973

AREA 0031 SAN DIEGO 200 SW
29.5N 122.4W

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	57 60	61 64	65 68	69 72	73 76	77 80	TOT	W FOG	WO FOG
14/16	.0	.0	.0	.0	.1	.0	1	.0	.1
11/13	.0	.0	.0	.1	.1	.0	2	.0	.2
9/10	.0	.0	.0	.0	.1	.1	2	.0	.2
7/8	.0	.1	.0	.2	.1	.0	4	.0	.4
6	.0	.1	.0	.0	.1	.1	3	.0	.3
5	.0	.1	.6	.7	.5	.0	22	.0	2.0
4	.0	.0	1.1	.8	.3	.0	24	.0	2.2
3	.0	.2	1.2	1.5	.1	.0	32	.0	2.9
2	.0	.6	1.5	1.2	.2	.0	38	.0	3.5
1	.0	.4	4.8	1.6	.1	.0	74	.2	6.6
0	.0	3.1	8.2	.7	.1	.0	132	.6	11.4
-1	.2	5.5	9.6	.9	.0	.0	177	.2	16.0
-2	.4	8.9	8.0	.2	.0	.0	190	.2	17.2
-3	.3	7.3	5.4	.6	.0	.0	149	.2	13.5
-4	.7	6.0	3.8	.1	.0	.0	116	.1	10.5
-5	1.0	3.5	1.3	.1	.0	.0	64	.4	5.5
-6	.7	1.6	.6	.0	.0	.0	32	.0	2.9
-7/-8	.2	1.7	.5	.0	.0	.0	26	.0	2.4
-9/-10	.1	.0	.2	.0	.0	.0	3	.0	.3
-11/-13	.0	.1	.0	.0	.0	.0	1	.0	.1
TOTAL	39	428	509	95	19	2	1092	20	1072
PCT	3.6	39.2	46.6	8.7	1.7	.2	100.0	1.8	98.2

PERIOD: (OVER-ALL) 1963-1973

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	2.3	.0	.0	.0	.0	2.5
1-2	.2	8.1	4.8	.0	.0	.0	13.2
3-4	.0	5.7	8.1	.8	.0	.0	14.6
5-6	.0	1.8	6.5	.6	.0	.0	9.0
7	.2	.3	2.0	1.0	.0	.0	3.6
8-9	.0	.0	.2	.2	.0	.0	.3
10-11	.0	.0	.0	.2	.0	.0	.2
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.7	18.3	21.6	2.8	.0	.0	43.4

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	1.0	.0	.0	.0	.0	1.3
1-2	.0	3.1	.8	.0	.0	.0	3.9
3-4	.2	1.2	1.3	.0	.0	.0	2.7
5-6	.0	.0	.3	.0	.0	.0	.3
7	.0	.2	.1	.0	.0	.0	.3
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.5	5.6	2.5	.0	.0	.0	8.6

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	.2	.0	.0	.0	.0	.4
1-2	.0	.8	.2	.0	.0	.0	1.0
3-4	.0	.4	.0	.0	.0	.0	.4
5-6	.0	.0	.2	.0	.0	.0	.2
7	.0	.2	.0	.0	.0	.0	.2
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	1.7	.5	.0	.0	.0	2.3

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.3	.0	.0	.0	.0	.3
1-2	.0	.3	.0	.0	.0	.0	.3
3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.6	.0	.0	.0	.0	.6

PERIOD: (OVER-ALL) 1963-1973

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AREA 0031 SAN DIEGO 200 SW
29.5N 122.4W

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

	S							SW						
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.2	.0	.0	.0	.0	.2	.1	1.0	.0	.0	.0	.0	1.1
1-2	.0	1.5	.2	.0	.0	.0	1.7	.0	.7	.0	.0	.0	.0	.7
3-4	.0	.6	.2	.0	.0	.0	.8	.2	.7	.8	.0	.0	.0	1.7
5-6	.0	.0	.0	.2	.0	.0	.2	.0	.0	.2	.0	.0	.0	.2
7	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0	.2
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	2.3	.4	.2	.0	.0	2.9	.3	2.6	1.0	.0	.0	.0	4.0

	W							NW						TOTAL
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	PCT
<1	.3	1.3	.0	.0	.0	.0	1.6	.2	1.4	.0	.0	.0	.0	1.6	
1-2	.0	2.2	.4	.0	.0	.0	2.6	.0	6.9	2.6	.0	.0	.0	9.5	
3-4	.0	.3	.5	.0	.0	.0	.8	.2	3.2	6.2	.1	.0	.0	9.7	
5-6	.0	.4	.2	.0	.0	.0	.6	.0	1.5	4.0	.5	.0	.0	6.0	
7	.0	.0	.0	.0	.0	.0	.0	.0	.6	.7	.3	.0	.0	1.6	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.8	.1	.0	.0	.8	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.5	.0	.0	.8	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.3	4.2	1.0	.0	.0	.0	5.6	.5	13.6	14.4	1.6	.0	.0	30.1	97.4

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	3.5	7.6	.0	.0	.0	.0	11.1	
1-2	.7	23.8	9.0	.0	.0	.0	33.6	
3-4	.9	12.0	16.9	.9	.0	.0	30.8	
5-6	.0	3.7	11.3	1.4	.0	.0	16.4	
7	.2	1.6	2.8	1.4	.0	.0	6.0	
8-9	.0	.0	.9	.2	.0	.0	1.2	
10-11	.0	.0	.2	.7	.0	.0	.9	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
								432
TOT PCT	5.3	48.8	41.2	4.6	.0	.0	100.0	

PERIOD: (OVER-ALL) 1949-1973

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	1.4	7.4	14.4	8.3	1.7	.8	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	225	3
6-7	.0	1.4	7.3	10.2	6.2	2.0	1.2	.2	.5	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	193	6
8-9	.0	.8	3.0	5.3	2.9	3.2	2.4	.8	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	124	6
10-11	.0	.3	1.1	1.2	1.8	1.1	.8	.5	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	46	7
12-13	.0	.0	.9	.6	.9	.3	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	23	6
>13	.0	.0	.0	.3	.5	.6	.2	.2	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	14	9
INDET	2.3	1.2	.8	.6	.3	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	35	2
TOTAL	24	73	181	175	94	52	37	10	11	3	0	0	0	0	0	0	0	0	0	660	5
PCT	3.6	11.1	27.4	26.5	14.2	7.9	5.6	1.5	1.7	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

NOVEMBER

PERIOD: (PRIMARY) 1901-1973
(OVER-ALL) 1854-1973

AREA 0031 SAN DIEGO 200 SW
29.4N 122.7W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	.0	.5	.4	.0	.0	.0	.0	1.0	1.0	.0	.6	.4	.4		.0	96.7
NE	.0	.6	1.9	.0	.0	.0	.0	2.5	2.5	.0	8.8	.0	1.1		.0	85.1
E	2.6	.0	2.0	.0	.0	.0	.0	4.6	.0	.0	.0	.0	2.6		.0	92.7
SE	3.1	.0	3.1	.0	.0	.0	.0	6.3	.0	.0	.0	.0	.0		.0	93.8
S	.0	.0	.0	.0	.0	.0	.0	.0	3.4	.0	1.1	2.3	2.3		.0	91.0
SW	.0	.6	2.9	.0	.0	.0	.0	3.5	3.5	.0	3.5	.0	.0		.0	89.4
W	1.3	1.0	1.0	.0	.0	.0	.0	3.2	2.2	.0	.0	.0	.0		.0	94.6
NW	.0	1.1	1.3	.0	.0	.0	.0	2.4	1.8	.6	.7	.0	.0		.0	94.5
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.5	4.5	.0		.0	90.9
TOT PCT	.4	.6	1.1	.0	.0	.0	.0	2.1	1.6	.1	1.7	.4	.5		.0	93.6
TOT OBS:	807															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00&03	.4	1.3	.4	.0	.0	.0	.0	2.2	.9	.0	2.2	.4	.0		.0	94.2
06&09	.5	1.0	1.6	.0	.0	.0	.0	3.1	2.1	.5	.5	.5	.5		.0	92.7
12&15	.0	.5	1.5	.0	.0	.0	.0	2.1	2.6	.0	2.6	.0	1.0		.0	91.8
18&21	.5	.5	1.0	.0	.0	.0	.0	1.9	1.0	.0	1.4	.5	.5		.0	94.7
TOT PCT	.4	.9	1.1	.0	.0	.0	.0	2.3	1.6	.1	1.7	.4	.5		.0	93.4
TOT OBS:	821															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	.8	16.8	16.6	2.7	.0	.0		37.0	12.2	37.5	46.2	28.0	40.0	33.2	46.7	35.5	46.2
NE	.7	5.2	4.9	.5	.0	.0		11.3	11.4	8.1	16.8	12.2	10.0	8.2	13.3	14.2	13.5
E	.4	2.8	1.1	.4	.0	.0		4.7	10.3	3.2	2.2	5.1	3.3	5.8	3.3	6.8	4.6
SE	.7	2.4	.5	.1	.0	.0		3.6	8.0	2.8	6.5	3.3	3.3	5.1	3.3	2.4	4.2
S	.8	2.7	1.3	.2	.0	.0		5.0	9.0	5.1	1.1	5.1	5.6	6.9	7.8	4.3	3.5
SW	.2	2.2	2.4	.6	.0	.0		5.3	12.4	6.5	2.2	5.1	2.2	5.1	2.2	6.8	5.8
W	1.5	4.4	2.7	.7	.0	.0		9.3	10.1	9.1	7.1	15.4	8.9	9.1	4.4	9.6	4.6
NW	1.1	10.3	8.3	1.5	.0	.0		21.2	11.4	22.3	15.8	24.5	26.7	22.1	18.9	19.1	17.5
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	2.5							2.5	.0	5.4	2.2	1.4	.0	4.5	.0	1.3	.0
TOT OBS	78	416	337	60	0	0	891		11.0	186	46	143	45	156	45	157	113
TOT PCT	8.8	46.7	37.8	6.7	.0	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	6.8	21.6	7.7	.9	.0		37.0	12.2	39.2	30.9	36.2	40.0
NE	2.5	6.3	2.6	.0	.0		11.3	11.4	9.8	11.7	9.3	13.9
E	1.4	2.9	.3	.1	.0		4.7	10.3	3.0	4.7	5.2	5.9
SE	1.6	1.8	.3	.0	.0		3.6	8.0	3.6	3.3	4.7	3.1
S	2.0	2.4	.4	.1	.0		5.0	9.0	4.3	5.2	7.1	4.0
SW	1.2	2.9	1.2	.1	.0		5.3	12.4	5.6	4.4	4.5	6.4
W	2.9	4.8	1.5	.0	.0		9.3	10.1	8.7	13.8	8.1	7.5
NW	4.1	13.7	3.0	.3	.0		21.2	11.4	21.0	25.0	21.4	18.4
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	2.5						2.5	.0	4.7	1.1	3.5	.7
TOT OBS	222	503	152	14	0	891		11.0	232	188	201	270
TOT PCT	24.9	56.5	17.1	1.6	.0		100.0		100.0	100.0	100.0	100.0

NOVEMBER

PERIOD: (PRIMARY) 1901-1973
(OVER-ALL) 1854-1973

AREA 0031 SAN DIEGO 20^ SW
29.4N 122.7W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	4.7	6.0	46.6	36.6	6.0	.0	.0	10.7	100.0	232
06&09	1.1	5.9	44.1	40.4	8.5	.0	.0	11.9	100.0	188
12&15	3.5	5.0	47.8	36.3	7.5	.0	.0	11.0	100.0	201
18&21	.7	7.8	47.8	38.1	5.6	.0	.0	10.7	100.0	270
TOT	22	56	416	337	60	0	0	11.0		891
PCT	2.5	6.3	46.7	37.8	6.7	.0	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	8.6	7.6	9.6	6.8		4.6
NE	3.2	1.8	3.4	2.1		4.5
E	2.7	.7	1.3	.7		3.1
SE	1.3	.4	.7	.5		4.0
S	1.1	.8	1.9	1.2		5.1
SW	1.3	.7	2.2	2.2		5.4
W	3.3	2.5	3.5	2.6		4.5
NW	4.4	4.7	8.4	5.0		4.9
VAR	.0	.0	.0	.0		.0
CALM	1.2	.4	.5	1.1		4.4
TOT OBS	154	109	180	126	569	4.6
TOT PCT	27.1	19.2	31.6	22.1	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.0	.3	3.0	7.4	3.3	.5	.1	.0	.0	18.1	
NE	.4	.0	.2	1.3	1.8	.6	.4	.0	.2	.0	5.1	
E	.0	.0	.0	.2	.8	.2	.0	.0	.1	.0	4.0	
SE	.2	.0	.0	.2	.4	.0	.0	.0	.0	.0	2.1	
S	.0	.0	.2	.8	.5	.4	.5	.0	.0	.0	2.7	
SW	.0	.0	.2	.4	1.4	1.1	.5	.2	.2	.0	2.6	
W	.0	.0	.2	.6	1.9	1.9	.3	.0	.0	.1	7.0	
NW	.0	.0	*	1.3	5.5	3.8	1.5	.2	.0	.1	10.2	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.2	.2	1.2	.0	.0	.0	.0	.0	1.6	
TOT OBS	3	0	7	45	119	64	20	3	3	1	304	569
TOT PCT	.5	.0	1.2	7.9	20.9	11.2	3.5	.5	.5	.2	53.4	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM) ▪ OR >10	▪ OR >5	▪ OR >2	▪ OR >1	▪ OR >1/2	▪ OR >1/4	▪ OR >50YD	▪ OR >0
▪ OR >6500	.5	.7	.7	.7	.7	.7	.7	.7
▪ OR >5000	.9	1.1	1.1	1.1	1.2	1.2	1.2	1.2
▪ OR >3500	3.7	4.4	4.4	4.4	4.6	4.6	4.6	4.6
▪ OR >2000	12.6	15.4	15.6	15.6	15.8	15.8	15.8	15.8
▪ OR >1000	29.1	35.8	36.3	36.3	36.5	36.5	36.5	36.5
▪ OR >600	34.2	43.3	44.2	44.2	44.4	44.4	44.4	44.4
▪ OR >300	34.9	44.2	45.4	45.4	45.6	45.6	45.6	45.6
▪ OR >150	34.9	44.2	45.4	45.4	45.6	45.6	45.6	45.6
▪ OR > 0	34.9	44.2	45.6	45.6	45.8	46.1	46.1	46.1
TOTAL	199	252	260	260	261	263	263	263

TOTAL NUMBER OF OBS: 570

PCT FREQ NH <5/8: 53.9

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
13.3	9.4	10.7	12.2	8.1	7.6	9.4	10.7	18.1	.5	596

NOVEMBER

PERIOD: (PRIMARY) 1901-1973
(OVER-ALL) 1854-1973

AREA 0031 SAN DIEGO 200 SW
29.4N 122.7W

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
<1/2	NO PCP	.0	.2	.0	.0	.0	.0	.0	.0	.0	.1	.4	
	TOT %	.0	.2	.0	.0	.0	.0	.0	.0	.0	.1	.4	
	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	NO PCP	.1	.6	.0	.0	.0	.0	.0	.1	.0	.0	.9	
	TOT %	.1	.6	.0	.0	.0	.0	.0	.1	.0	.0	.9	
	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	NO PCP	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.2	
	TOT %	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.2	
	PCP	.0	.0	.0	.1	.0	.1	.1	.1	.0	.0	.5	
2<5	NO PCP	.4	.1	.0	.0	.2	*	.0	.1	.0	.0	.7	
	TOT %	.4	.1	.0	.1	.2	.2	.1	.2	.0	.0	1.2	
	PCP	.2	.3	.2	.0	.0	.0	.0	.2	.0	.0	1.0	
5<10	NO PCP	10.3	3.5	1.1	2.1	2.2	1.5	1.7	4.7	.0	.6	27.5	
	TOT %	10.5	3.7	1.3	2.1	2.2	1.5	1.7	4.9	.0	.6	28.5	
	PCP	.1	.0	.0	.1	.0	.1	.2	.2	.0	.0	.6	
10+	NO PCP	23.9	6.5	3.4	1.7	3.1	3.6	7.8	16.5	.0	1.7	68.2	
	TOT %	24.0	6.5	3.4	1.8	3.1	3.7	8.0	16.6	.0	1.7	68.8	
	TOT OBS												804
	TOT PCT	35.1	11.3	4.7	4.0	5.5	5.3	9.8	21.9	.0	2.5	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	0-3	.0	.1	.0	.0	.0	.0	.0	.0	.0	.1	.2	
<1/2	4-10	.0	.1	.0	.0	.0	.0	.0	.0	.0		.1	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.2	.0	.0	.0	.0	.0	.0	.0	.1	.4	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.1	.6	.0	.0	.0	.0	.0	.1	.0		.9	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.1	.6	.0	.0	.0	.0	.0	.1	.0	.0	.9	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	4-10	.0	.0	.0	.0	.0	.0	.1	*	.0		.1	
	11-21	.1	.1	.0	.0	.0	.0	.0	.0	.0		.2	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.1	.1	.0	.0	.0	.0	.1	*	.0	.0	.4	
	0-3	.0	.0	.0	.0	.1	*	.0	.0	.0	.0	.1	
2<5	4-10	.2	*	.0	.0	.1	.0	.1	*	.0		.5	
	11-21	.2	*	.0	.0	.0	.1	.0	.2	.0		.5	
	22+	.0	.0	.0	.1	.0	.0	.0	.0	.0		.1	
	TOT %	.4	.1	.0	.1	.2	.2	.1	.2	.0	.0	1.2	
	0-3	.0	.2	.1	.4	.4	.1	.2	.2	.0	.6	2.2	
5<10	4-10	4.1	1.2	.7	1.5	1.5	.4	.9	3.1	.0		13.3	
	11-21	5.0	1.9	.3	.1	.2	.8	.4	1.4	.0		10.2	
	22+	1.4	.4	.1	.0	.1	.2	.2	.2	.0		2.7	
	TOT %	10.5	3.7	1.3	2.0	2.2	1.5	1.7	4.9	.0	.6	28.4	
	0-3	.4	.1	.2	.4	.3	.1	1.3	.6	.0	1.7	5.2	
10+	4-10	11.4	3.7	2.1	1.0	1.5	1.7	3.6	7.5	.0		32.5	
	11-21	11.0	2.6	.8	.4	1.1	1.5	2.5	7.2	.0		27.1	
	22+	1.4	*	.2	.0	.1	.3	.6	1.3	.0		4.0	
	TOT %	24.1	6.5	3.4	1.8	3.1	3.7	7.9	16.6	.0	1.7	68.8	
	TOT OBS												807
	TOT PCT	35.3	11.2	4.7	4.0	5.5	5.3	9.8	21.8	.0	2.5	100.0	

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PERIOD: (PRIMARY) 1901-1973
(OVER-ALL) 1854-1973

AREA 0031 SAN DIEGO 200 SW
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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00&03	.6	.0	2.5	7.0	24.1	10.1	3.2	.0	.6	.0	48.1	51.9	158
06&09	.7	.0	1.3	6.7	16.0	10.0	2.0	.7	1.3	.7	39.3	60.7	150
12&15	.0	.0	.0	9.1	21.8	11.8	2.7	.0	.0	.0	45.5	54.5	110
18&21	.6	.0	.6	8.4	19.8	12.0	5.4	1.2	.0	.0	47.9	52.1	167
TOT	3	0	7	45	119	64	20	3	3	1	265	320	585
PCT	.5	.0	1.2	7.7	20.3	10.9	3.4	.5	.5	.2	45.3	54.7	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00&03	.4	.9	.4	1.3	29.3	67.6	225
06&09	.0	.5	.0	2.1	28.1	69.3	192
12&15	.5	1.0	.5	1.0	36.4	60.5	195
18&21	.5	1.0	.5	.5	20.1	77.5	209
TOT	3	7	3	10	233	565	821
PCT	.4	.9	.4	1.2	28.4	68.8	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET, NH >4/8), BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	.7	3.3	11.3	37.7	51.0	151
06&09	.7	2.0	10.1	29.5	60.4	149
12&15	.0	.9	11.2	37.4	51.4	107
18&21	.6	1.8	10.4	38.7	50.9	163
TOT	3	12	61	204	305	570
PCT	.5	2.1	10.7	35.8	53.5	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
75/79	.0	.0	.0	.0	.2	.0	.0	.0	1	.2
70/74	.0	.0	.2	.0	1.9	1.0	.2	.7	23	4.0
65/69	.0	.0	.3	1.4	4.5	10.4	12.9	5.9	204	35.5
60/64	.0	.0	.0	1.0	10.4	14.3	18.1	10.1	310	53.9
55/59	.0	.0	.0	.0	1.0	1.6	2.3	1.6	37	6.4
TOTAL	0	0	3	14	104	157	192	105	575	100.0
PCT	.0	.0	.5	2.4	18.1	27.3	33.4	18.3		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.1	*	.0	.0	.0	.0	.0	.0	.0	.0
1.7	.5	.3	.2	.0	.5	.3	.5	.0	.0
11.8	2.9	2.0	.7	3.5	2.7	4.3	6.3	.0	1.2
17.3	6.3	2.8	1.7	1.8	2.2	6.3	13.3	.0	2.1
1.8	.8	.0	.2	.3	.3	.7	2.3	.0	.2
32.7	10.5	5.1	2.8	5.6	5.8	11.7	22.3	.0	3.5

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00&03	75	74	70	64	60	56	52	64.5	231
06&09	69	68	67	63	59	56	54	62.7	194
12&15	71	68	67	63	59	57	57	62.6	200
18&21	74	72	70	64	60	58	55	64.5	266
TOT	75	72	68	64	59	57	52	63.7	891

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00&03	.0	2.6	21.3	32.3	27.1	16.8	78	155
06&09	.0	4.7	14.1	26.2	34.9	20.1	79	149
12&15	.0	1.6	13.1	23.0	42.6	19.7	81	122
18&21	.0	2.5	23.6	26.8	30.6	16.6	77	157
TOT	0	17	107	159	194	106	79	583

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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	53 56	57 60	61 64	65 68	69 72	73 76	TOT	W FOG	WO FOG
11/13	.0	.0	.0	.0	.0	.1	1	.0	.1
9/10	.0	.0	.0	.0	.1	.1	2	.0	.3
7/8	.0	.0	.0	.4	.3	.3	7	.0	.9
6	.0	.0	.0	.6	.3	.1	8	.0	1.0
5	.0	.0	.0	.3	.3	.3	6	.0	.8
4	.0	.0	.4	1.4	.9	.1	22	.1	2.7
3	.0	.0	.5	1.2	.9	.0	20	.0	2.6
2	.0	.0	1.4	3.5	.3	.0	40	.1	5.0
1	.0	.0	3.6	3.5	.0	.0	55	.0	7.1
0	.0	.4	7.4	5.5	.1	.0	105	.0	13.5
-1	.1	.3	9.5	3.9	.1	.1	109	.5	13.5
-2	.0	.9	8.2	4.9	.1	.0	110	.3	13.9
-3	.0	1.7	8.6	3.9	.0	.0	110	.1	14.0
-4	.0	2.1	8.0	.9	.0	.0	85	.3	10.7
-5	.1	1.9	4.6	.3	.0	.0	54	.3	6.7
-6	.1	.9	.8	.3	.0	.0	16	.0	2.1
-7/-8	.0	2.1	1.2	.0	.0	.0	25	.1	3.1
-9/-10	.0	.5	.0	.0	.0	.0	4	.0	.5
TOTAL	3	83	422	236	26	9	779	14	765
PCT	.4	10.7	54.2	30.3	3.3	1.2	100.0	1.8	98.2

PERIOD: (OVER-ALL) 1963-1973

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	2.1	.0	.0	.0	.0	2.4
1-2	.0	5.6	4.5	.0	.0	.0	10.2
3-4	.0	3.8	4.2	.2	.0	.0	8.3
5-6	.0	1.9	4.2	.0	.0	.0	6.1
7	.0	.2	2.0	1.2	.0	.0	3.5
8-9	.0	.5	.2	.0	.0	.0	.8
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	14.2	15.2	1.4	.0	.0	31.2

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.1	.0	.0	.0	.0	.1
1-2	.0	3.4	2.0	.0	.0	.0	5.3
3-4	.0	.5	1.6	.1	.0	.0	2.1
5-6	.0	.1	1.2	.3	.0	.0	1.6
7	.0	.1	.0	.0	.0	.0	.1
8-9	.0	.0	.3	.0	.0	.0	.3
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	4.1	5.0	.4	.0	.0	9.5

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.6	.9	.0	.0	.0	.0	1.5
1-2	.0	1.6	.5	.0	.0	.0	2.0
3-4	.0	.6	.5	.0	.0	.0	1.1
5-6	.0	.0	1.6	.9	.0	.0	2.5
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.6	3.1	2.6	.9	.0	.0	7.2

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.1	.0	.0	.0	.0	.2
1-2	.6	1.0	.0	.0	.0	.0	1.6
3-4	.0	.9	.5	.0	.0	.0	1.4
5-6	.0	.0	.5	.3	.0	.0	.8
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.3	.0	.0	.0	.3
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.7	2.0	1.3	.3	.0	.0	4.2

PERIOD: (OVER-ALL) 1963-1973

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TABLE 18 (CONT)

AREA 0031 SAN DIEGO 200 SW
29.4N 122.7W

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

S

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	.2	.0	.0	.0	.0	.5
1-2	.0	1.7	.3	.0	.0	.0	2.0
3-4	.0	.3	1.3	.0	.0	.0	1.6
5-6	.0	.3	.2	.2	.0	.0	.8
7	.0	.0	.3	.3	.0	.0	.6
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	2.5	2.1	.5	.0	.0	5.3

SW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.7	.0	.0	.0	.0	.7
1-2	.0	1.2	.6	.0	.0	.0	1.8
3-4	.0	.8	2.0	.6	.0	.0	3.4
5-6	.0	.0	.2	.1	.0	.0	.2
7	.0	.0	.3	.3	.0	.0	.6
8-9	.0	.0	.1	.0	.0	.0	.1
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	2.7	3.1	1.0	.0	.0	6.8

W

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	.5	.0	.0	.0	.0	.8
1-2	.8	2.0	.2	.0	.0	.0	3.1
3-4	.0	1.1	1.1	.0	.0	.0	2.2
5-6	.0	.8	.8	.0	.0	.0	1.7
7	.0	.6	.6	.8	.0	.0	2.0
8-9	.0	.0	.7	.0	.0	.0	.7
10-11	.0	.0	.0	.2	.0	.0	.2
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.3	.0	.0	.3
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.1	5.1	3.4	1.4	.0	.0	11.0

NW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	.8	.0	.0	.0	.0	.8	
1-2	.1	2.5	2.5	.0	.0	.0	5.0	
3-4	.0	2.2	2.4	.0	.0	.0	4.6	
5-6	.0	2.0	3.1	.9	.0	.0	6.0	
7	.0	.6	3.1	1.0	.0	.0	4.7	
8-9	.0	.1	.2	.0	.0	.0	.3	
10-11	.0	.0	.3	.1	.0	.0	.4	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.1	8.2	11.6	2.0	.0	.0	21.8	97.0

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	4.8	5.4	.0	.0	.0	.0	10.2	
1-2	1.5	18.9	10.5	.0	.0	.0	30.9	
3-4	.0	10.2	13.5	.9	.0	.0	24.6	
5-6	.0	5.1	11.7	2.7	.0	.0	19.5	
7	.0	1.5	6.3	3.6	.0	.0	11.4	
8-9	.0	.6	1.5	.0	.0	.0	2.1	
10-11	.0	.0	.3	.3	.0	.0	.6	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.3	.3	.0	.0	.6	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
								333
TOT PCT	6.3	41.7	44.1	7.8	.0	.0	100.0	

PERIOD: (OVER-ALL) 1949-1973

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	1.7	6.9	13.4	8.8	4.2	.8	.6	.6	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	179	4
6-7	.0	.4	5.6	11.3	4.0	2.9	1.3	1.5	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	130	6
8-9	.2	.4	1.5	1.5	6.3	1.9	.6	1.3	1.9	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	75	8
10-11	.0	.6	1.0	1.5	1.7	.4	.4	.2	.6	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	32	7
12-13	.0	.0	.4	1.3	.6	.2	.0	.2	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	15	7
>13	.0	.0	.0	.4	.6	.6	.6	.0	1.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	10	11
INDET	4.2	.8	.0	.6	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	29	1
TOTAL	29	44	105	121	84	34	17	18	22	4	0	0	0	0	0	0	0	0	0	478	8
PCT	6.1	9.2	22.0	25.3	17.6	7.1	3.6	3.8	4.6	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

DECEMBER

PERIOD: (PRIMARY) 1895-1972
(OVER-ALL) 1872-1972

AREA 0031 SAN DIEGO 200 SW
29.5N 122.5W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA				
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	.4	1.7	1.4	.0	.0	.0	.0	3.0	.9	.0	1.7	.0	.8	.0		93.8
NE	.0	1.0	.0	.0	.0	.0	.0	1.0	.0	.5	1.2	.0	1.0	1.0		95.4
E	1.3	2.7	.0	.0	.0	.0	.0	4.0	.0	1.3	2.0	.0	.0	.0		91.6
SE	3.8	7.5	.0	.0	.0	.0	.0	11.3	7.5	.0	.0	.0	.0	.0		81.1
S	3.4	.0	1.7	.0	.0	.0	.0	5.0	.0	.0	3.4	.0	5.0	.0		86.6
SW	8.8	.0	1.8	.0	.0	.0	.0	10.6	3.5	.0	.0	.0	1.8	.0		84.1
W	5.3	1.3	3.9	.0	.0	.0	.0	10.5	.0	.0	1.3	.0	2.6	.0		89.5
NW	.8	1.2	1.8	.0	.0	.0	.0	3.8	1.4	.0	3.2	.0	.8	.0		88.8
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	18.2	.0		81.8
TOT PCT	1.4	1.6	1.3	.0	.0	.0	.0	4.1	1.1	.2	2.2	.0	1.4	.2		90.9
TOT OBS:	638															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA				
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00&03	1.4	1.4	1.4	.0	.0	.0	.0	3.7	.9	.5	1.9	.0	.9	.5		91.7
06&09	.8	1.6	1.6	.0	.0	.0	.0	3.9	.8	.0	2.4	.0	1.6	.0		91.3
12&15	2.6	1.9	1.3	.0	.0	.0	.0	5.8	.6	.0	2.6	.0	2.6	.0		88.4
18&21	.6	1.3	.6	.0	.0	.0	.0	2.5	1.9	.0	2.5	.0	.6	.0		92.4
TOT PCT	1.4	1.3	1.2	.0	.0	.0	.0	4.0	1.1	.2	2.3	.0	1.4	.2		91.0
TOT OBS:	656															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	.9	15.5	19.3	2.4	.0	.0		38.0	12.3	40.7	38.8	35.8	38.1	24.7	37.5	44.4	41.5
NE	1.0	9.0	5.4	.8	.0	.0		16.1	10.7	12.4	12.1	22.7	13.1	21.2	16.7	15.4	15.8
E	.9	2.7	1.6	.0	.0	.0		5.2	9.1	6.9	8.6	2.9	5.7	5.9	8.3	1.5	3.8
SE	.9	2.4	.8	.0	.0	.0		4.2	6.9	3.0	2.6	5.5	8.0	5.4	3.8	2.8	4.7
S	.3	2.7	1.3	.0	.0	.0		4.3	8.7	4.3	7.8	5.8	6.8	3.6	3.3	2.5	3.0
SW	.2	1.8	2.4	.1	.0	.0		4.4	11.3	5.4	4.3	4.1	1.1	2.8	2.5	8.3	3.4
W	.1	4.1	2.4	.1	.0	.0		6.6	9.9	5.2	6.9	4.4	5.7	14.0	3.3	6.1	6.4
NW	.8	6.1	10.0	2.5	.0	.0		19.3	13.6	20.8	19.0	14.2	21.6	17.3	22.9	18.9	20.5
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.8							1.8	.0	1.2	.0	4.7	.0	5.1	1.7	.0	.9
TOT OBS	49	323	315	42	0	0	729		11.3	167	58	86	44	98	60	99	117
TOT PCT	6.7	44.3	43.2	5.8	.0	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	4.9	26.5	6.3	.2	.0		38.0	12.3	40.2	36.5	29.6	42.8
NE	3.5	10.3	2.2	.1	.0		16.1	10.7	12.3	19.4	19.5	15.6
E	1.5	3.5	.2	.0	.0		5.2	9.1	7.3	3.8	6.8	2.8
SE	2.2	1.9	*	.0	.0		4.2	6.9	2.9	6.3	4.7	3.8
S	2.0	1.9	.4	.0	.0		4.3	8.7	5.2	6.2	3.5	2.8
SW	.8	2.9	.6	.0	.0		4.4	11.3	5.1	3.1	2.7	5.7
W	2.4	3.4	.9	.0	.0		6.6	9.9	5.7	4.8	10.0	6.3
NW	2.8	10.0	6.0	.4	.0		19.3	13.6	20.3	16.7	19.5	19.8
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	1.8						1.8	.0	.9	3.1	3.8	.5
TOT OBS	160	441	122	6	0	729		11.3	225	130	158	216
TOT PCT	21.9	60.5	16.7	.8	.0		100.0		100.0	100.0	100.0	100.0

DECEMBER

PERIOD: (PRIMARY) 1965-1972
(OVER-ALL) 1872-1972

TABLE 4

AREA 0031 SAN DIEGO 200 SW
29.5N 122.5W

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	.9	4.0	44.0	46.2	4.9	.0	.0	11.6	100.0	225
06&09	3.1	6.2	40.0	43.1	7.7	.0	.0	11.3	100.0	130
12&15	3.8	6.3	44.9	39.9	5.1	.0	.0	10.7	100.0	158
18&21	.5	4.2	46.8	42.6	6.0	.0	.0	11.3	100.0	216
TOT	13	36	323	315	42	0	0	11.3		729
PCT	1.8	4.9	44.3	43.2	5.8	.0	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	9.0	3.6	14.4	8.6		4.9
NE	4.2	3.1	7.7	3.5		4.9
E	1.3	.5	1.3	.9		4.6
SE	.1	.0	2.5	1.0		6.6
S	.9	.5	2.0	.9		5.4
SW	.4	.5	2.4	2.2		6.5
W	.3	.7	3.7	2.2		6.1
NW	2.9	4.0	8.0	2.3		4.9
VAR	.0	.0	.0	.0		.0
CALM	.3	.5	.8	.8		5.7
TOT OBS	72	57	159	83	371	5.2
TOT PCT	19.4	15.4	42.9	22.4	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.3	.0	.2	2.8	10.4	4.9	.8	.0	.3	.0	18.0	
NE	.0	.0	.3	1.9	3.8	2.4	.5	.0	.0	.8	8.8	
E	.0	.3	.0	.3	.5	.0	.0	.0	.0	.0	3.0	
SE	.1	.0	.0	.6	1.7	.0	.0	.0	.0	.0	1.2	
S	.1	.0	.3	.2	1.2	.3	.1	.0	.0	.0	2.1	
SW	.0	.0	.0	.6	2.1	.3	.7	.0	.0	.3	1.5	
W	.4	.0	.0	.9	.9	1.7	.8	.3	.0	.0	1.8	
NW	.4	.0	.3	1.0	3.3	2.1	.8	.0	.0	.0	9.2	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.3	.5	.0	.0	.0	.0	1.6	
TOT OBS	5	1	4	31	90	45	14	1	1	4	175	371
TOT PCT	1.3	.3	1.1	8.4	24.3	12.1	3.8	.3	.3	1.1	47.2	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM) * OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >50YD	* OR >0
* OR >6500	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
* OR >5000	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
* OR >3500	5.1	5.6	5.6	5.6	5.6	5.6	5.6	5.6
* OR >2000	16.3	17.9	17.9	17.9	17.9	17.9	17.9	17.9
* OR >1000	39.6	42.0	42.0	42.0	42.0	42.0	42.0	42.0
* OR >600	42.2	49.7	50.3	50.3	50.3	50.3	50.3	50.3
* OR >300	43.0	50.8	51.3	51.3	51.3	51.3	51.3	51.3
* OR >150	43.3	51.1	51.6	51.6	51.6	51.6	51.6	51.6
* OR > 0	43.9	51.9	52.4	52.7	52.7	52.7	52.9	52.9
TOTAL	164	194	196	197	197	197	198	198

TOTAL NUMBER OF OBS: 374 PCT FREQ NH <5/8: 47.1

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
7.4	8.2	11.4	11.1	7.2	7.9	15.8	12.6	17.6 .7	404

DECEMBER

PERIOD: (PRIMARY) 1895-1972
(OVER-ALL) 1872-1972

AREA 0031 SAN DIEGO 200 SW
29.5N 122.5W

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0				
	NO PCP	.0	.0	.0	.0	.0	.0	.1	.1	.0	.0	.2	
	TOT %	.0	.0	.0	.0	.0	.0	.1	.1	.0	.0	.2	
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0				
	NO PCP	.4	.0	.0	.0	.0	.0	.0	.1	.0	.0	.5	
	TOT %	.4	.0	.0	.0	.0	.0	.0	.1	.0	.0	.5	
1<2	PCP	.0	.0	.0	.1	.1	.0	.0	.0				
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	
	TOT %	.0	.0	.0	.1	.1	.0	.0	.0	.0	.0	.2	
2<5	PCP	.0	.0	.0	.2	.0	.0	.0	.0				
	NO PCP	.3	.0	.1	*	.0	.2	.2	*	.0	.0	.8	
	TOT %	.3	.0	.1	.2	.0	.2	.2	*	.0	.0	.9	
5<10	PCP	.9	.2	.2	.2	.2	.5	.4	.6				
	NO PCP	11.7	4.8	2.2	1.3	2.0	.6	1.3	7.4	.0	.0	30.1	
	TOT %	12.6	4.9	2.4	1.5	2.2	1.1	1.6	8.0	.0	.2	31.4	
10+	PCP	.3	.0	.0	.0	.0	.0	.2	.1				
	NO PCP	24.1	11.2	3.2	2.4	2.4	3.2	3.8	11.2	.0	.0	.6	
	TOT %	24.4	11.2	3.2	2.4	2.4	3.2	4.1	11.3	.0	1.6	63.1	
	TOT OBS										1.6	63.7	
	TOT PCT	37.6	16.1	5.7	4.2	4.7	4.4	6.0	19.5	.0	1.7	100.0	637

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.1	.1	.0		.2	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.0	.0	.0	.1	.1	.0	.0	.2	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.2	.0	.0	.0	.0	.0	.0	.0	.0		.2	
	11-21	.4	.0	.0	.0	.0	.0	.0	.1	.0		.5	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.5	.0	.0	.0	.0	.0	.0	.1	.0	.0	.6	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.1	.1	.0	.0	.0	.0		.2	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.1	.1	.0	.0	.0	.0	.0	.2	
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.1	.0	.1	.2	.0	.2	.2	*	.0		.8	
	11-21	.2	.0	.0	.0	.0	*	.1	.0	.0		.3	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.3	.0	.1	.2	.0	.2	.3	*	.0	.0	1.1	
5<10	0-3	.6	.7	.2	.4	.2	.1	.0	.1	.0	.2	2.5	
	4-10	4.8	2.2	1.6	.9	1.3	.2	.9	1.5	.0		13.5	
	11-21	6.4	1.5	.6	.2	.7	.7	.7	5.6	.0		16.3	
	22+	.6	.5	.0	.0	.0	.0	.0	.8	.0		1.9	
	TOT %	12.4	4.9	2.4	1.5	2.2	1.0	1.6	7.9	.0	.2	34.1	
10+	0-3	.3	.2	.7	.5	.2	.1	.1	.5	.0	1.7	4.3	
	4-10	10.3	6.7	1.3	1.3	1.5	1.4	2.7	3.8	.0		29.0	
	11-21	12.1	3.8	1.1	.5	.8	1.9	1.5	4.9	.0		26.7	
	22+	1.7	.2	.0	.0	.0	.0	.0	2.0	.0		3.9	
	TOT %	24.3	11.0	3.1	2.4	2.4	3.3	4.3	11.3	.0	1.7	63.9	
	TOT OBS										1.9	100.0	
	TOT PCT	37.6	15.9	5.7	4.1	4.7	4.6	6.2	19.4	.0			645

DECEMBER

PERIOD: (PRIMARY) 1895-1972
(OVER-ALL) 1872-1972

AREA 0031 SAN DIEGO 200 SW
29.5N 122.5W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00&03	.8	.0	2.4	8.9	21.1	11.4	4.1	.0	.8	.8	50.4	49.6	123
06&09	1.2	.0	.0	6.0	26.5	7.2	1.2	.0	.0	1.2	43.4	56.6	83
12&15	1.3	1.3	1.3	1.3	33.3	17.3	1.3	.0	.0	.0	57.3	42.7	75
18&21	2.0	.0	.0	13.9	17.8	12.9	7.9	1.0	.0	2.0	57.4	42.6	101
TOT	5	1	4	31	91	46	15	1	1	4	199	183	382
PCT	1.3	.3	1.0	8.1	23.8	12.0	3.9	.3	.3	1.0	52.1	47.9	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00&03	.0	.9	.5	1.4	33.9	63.3	218
06&09	.8	.8	.0	.0	34.4	64.1	128
12&15	.0	.0	.0	1.3	46.5	52.2	157
18&21	.0	1.3	.0	1.3	25.6	71.9	160
TOT	1	5	1	7	232	417	663
PCT	.2	.8	.2	1.1	35.0	62.9	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET, NH >4/8), BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <3	1000+ AND3+	NH <5/8 AND 3+	TOTAL OBS
00&03	.8	3.4	14.4	39.0	46.6	118
06&09	1.2	1.2	7.2	36.1	56.6	83
12&15	1.3	4.0	5.3	52.0	42.7	75
18&21	2.0	2.0	16.3	42.9	40.8	98
TOT	5	10	43	157	174	374
PCT	1.3	2.7	11.5	42.0	46.5	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
70/74	.0	.0	.0	.2	.2	.2	.0	.0	3	.7
65/69	.0	.0	.0	.2	2.4	4.2	2.4	.9	43	10.1
60/64	.0	.0	.0	4.2	14.9	20.3	17.9	7.1	273	64.4
55/59	.0	.0	.0	2.1	8.5	6.8	4.5	1.9	101	23.8
50/54	.0	.0	.0	.0	.0	.0	.7	.2	4	.9
TOTAL	0	0	0	29	110	134	108	43	424	100.0
PCT	.0	.0	.0	6.8	25.9	31.6	25.5	10.1		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.2	.2	.0	.0	.0	.0	.0	.2	.0	.0
3.2	.7	.4	.0	.2	2.1	1.3	1.7	.0	.5
23.2	11.6	4.0	2.7	3.0	2.9	4.0	11.1	.0	1.9
10.5	4.6	.5	.9	.6	.2	.9	5.5	.0	.0
.2	.5	.2	.0	.0	.0	.0	.0	.0	.0
37.4	17.6	5.0	3.7	3.8	5.3	6.3	18.6	.0	2.4

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00&03	72	68	66	61	57	54	51	61.5	224
06&09	70	68	64	60	56	55	52	60.2	131
12&15	66	65	64	60	55	51	48	59.9	161
18&21	72	68	66	62	57	54	52	61.6	219
TOT	72	68	66	61	57	52	48	60.9	735

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00&03	.0	5.1	23.9	34.8	23.9	12.3	76	138
06&09	.0	2.2	26.7	40.0	20.0	11.1	76	90
12&15	.0	7.0	26.7	29.1	27.9	9.3	75	86
18&21	.0	12.3	27.2	22.8	29.8	7.9	74	114
TOT	0	29	111	135	109	44	76	428

PERIOD: (PRIMARY) 1895-1972
(OVER-ALL) 1872-1972

AREA 0031 SAN DIEGO 200 SW
29.5N 122.5W

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	49 52	53 56	57 60	61 64	65 68	69 72	TOT	W FOG	WO FOG
7/8	.0	.0	.0	.3	.2	.2	4	.0	.6
6	.0	.0	.0	.2	.0	.2	2	.0	.3
5	.0	.0	.0	.5	.6	.3	9	.0	1.4
4	.0	.0	.2	.8	.3	.0	8	.0	1.3
3	.0	.0	.0	1.8	1.3	.0	19	.0	3.1
2	.0	.0	.0	1.9	.6	.2	17	.0	2.7
1	.0	.0	.0	2.3	1.8	.0	25	.0	4.0
0	.0	.0	2.7	6.4	1.3	.0	65	.6	9.8
-1	.0	.0	3.5	9.0	1.4	.0	87	.0	14.0
-2	.0	.2	5.9	9.2	.2	.0	96	.2	15.3
-3	.0	.2	8.7	5.8	.2	.0	92	.0	14.8
-4	.0	.6	8.7	4.2	.0	.0	84	.3	13.2
-5	.0	.3	3.9	2.3	.0	.0	40	.3	6.1
-6	.0	.6	3.4	.5	.0	.0	28	.0	4.5
-7/-8	.2	1.0	3.4	.8	.0	.0	33	.0	5.3
-9/-10	.2	.2	.6	.0	.0	.0	6	.0	1.0
-11/-13	.5	.2	.2	.3	.0	.0	7	.3	.9
TOTAL	5	20	256	287	49	5	622	11	611
PCT	.8	3.2	41.2	46.1	7.9	.8	100.0	1.8	98.2

PERIOD: (OVER-ALL) 1963-1972

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	2.2	.0	.0	.0	.0	2.2
1-2	.0	6.9	2.2	.0	.0	.0	9.1
3-4	.0	3.7	9.4	.5	.0	.0	13.6
5-6	.0	2.2	3.7	1.9	.0	.0	7.9
7	.0	.8	1.4	.0	.0	.0	2.3
8-9	.0	.5	.0	1.4	.0	.0	1.9
10-11	.0	.0	1.0	.0	.0	.0	1.0
12	.0	.0	1.0	.0	.0	.0	1.0
13-16	.0	.0	.0	.4	.0	.0	.4
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	16.3	18.7	4.2	.0	.0	39.3

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.2	.0	.0	.0	.0	.2
1-2	1.1	9.1	2.1	.0	.0	.0	12.2
3-4	.0	4.8	3.5	.0	.0	.0	8.3
5-6	.0	1.4	1.2	.0	.0	.0	2.7
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.5	.5	.0	.0	1.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.1	15.6	7.2	.5	.0	.0	24.4

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.0	.0	.0	.0	.0	.0	1.0
1-2	.4	1.3	.5	.0	.0	.0	2.2
3-4	.0	.0	.4	.0	.0	.0	.4
5-6	.0	.0	.5	.0	.0	.0	.5
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.3	1.3	1.3	.0	.0	.0	4.0

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.5	.0	.0	.0	.0	.0	.5
1-2	.0	1.0	.5	.0	.0	.0	1.4
3-4	.0	.5	.8	.0	.0	.0	1.3
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.5	1.4	1.3	.0	.0	.0	3.3

PERIOD: (OVER-ALL) 1963-1972

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TABLE 18 (CONT)

AREA 0031 SAN DIEGO 200 SW
29.5N 122.5W

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

S

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	1.6	.0	.0	.0	.0	1.6
3-4	.0	.0	.7	.0	.0	.0	.7
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	1.6	.7	.0	.0	.0	2.3

SW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.5	.0	.0	.0	.0	.5
1-2	.0	.4	.5	.0	.0	.0	.8
3-4	.0	.5	1.9	.0	.0	.0	2.4
5-6	.0	.0	.5	.0	.0	.0	.5
7	.0	.0	.5	.0	.0	.0	.5
8-9	.0	.0	.1	.0	.0	.0	.1
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	1.3	3.5	.0	.0	.0	4.8

W

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.5	.0	.0	.0	.0	.5
1-2	.0	1.9	.4	.0	.0	.0	2.3
3-4	.0	.0	.5	.0	.0	.0	.5
5-6	.0	.0	.5	.0	.0	.0	.5
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.4	.0	.0	.0	.4
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	2.4	1.7	.0	.0	.0	4.1

NW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.5	.0	.0	.0	.0	.0	.5	
1-2	1.0	3.0	1.7	.0	.0	.0	5.7	
3-4	.0	1.6	3.0	.5	.0	.0	5.1	
5-6	.0	.7	1.3	.0	.0	.0	2.1	
7	.0	.1	1.0	.0	.0	.0	1.1	
8-9	.0	.0	.0	1.0	.0	.0	1.0	
10-11	.0	.0	.0	.5	.0	.0	.5	
12	.0	.0	.0	.5	.0	.0	.5	
13-16	.0	.0	.0	.1	.0	.0	.1	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	1.4	5.4	7.0	2.5	.0	.0	16.4	98.6

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	3.4	3.4	.0	.0	.0	.0	6.7	
1-2	2.9	25.0	7.7	.0	.0	.0	35.6	
3-4	.0	11.1	20.2	1.0	.0	.0	32.2	
5-6	.0	4.3	7.7	1.9	.0	.0	13.9	
7	.0	1.0	2.9	.0	.0	.0	3.8	
8-9	.0	.5	1.0	2.9	.0	.0	4.3	
10-11	.0	.0	1.0	.5	.0	.0	1.4	
12	.0	.0	1.0	.5	.0	.0	1.4	
13-16	.0	.0	.0	.5	.0	.0	.5	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	6.3	45.2	41.3	7.2	.0	.0	100.0	208

PERIOD: (OVER-ALL) 1949-1972

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	1.7	10.2	16.2	7.7	3.7	.6	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	142	4
6-7	.0	.3	4.5	9.7	5.7	3.1	.9	1.4	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	92	6
8-9	.0	.0	2.8	5.4	5.1	1.4	1.1	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	59	6
10-11	.0	.3	.9	1.7	.6	2.0	1.7	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	29	7
12-13	.0	.0	.6	.0	.6	1.1	.6	.0	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	13	9
>13	.0	.0	.0	.3	.6	.3	.3	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6	8
INDET	1.4	.9	.3	.0	.3	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	11	3
TOTAL	11	41	89	87	58	30	16	12	7	1	0	0	0	0	0	0	0	0	0	352	5
PCT	3.1	11.6	25.3	24.7	16.5	8.5	4.5	3.4	2.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1891-1974
(OVER-ALL) 1854-1974

AREA 0031 SAN DIEGO 200 SW
29.5N 122.4W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	.2	1.0	1.0	.0	.0	.0	.0	2.2	.6	*	2.1	.1	.7	*		94.4
NE	.9	.6	1.7	.0	.0	.0	.0	3.1	1.1	.2	2.2	*	.6	.1		92.9
E	2.6	.2	1.6	.0	.0	.0	.0	3.4	.0	.5	3.5	.6	1.6	.0		90.6
SE	6.3	1.1	3.3	.0	.0	.0	.0	10.8	7.6	.3	1.5	.4	.3	.0		79.2
S	1.2	.9	2.9	.0	.0	.0	.0	5.0	1.4	.0	1.5	1.1	.6	.0		90.3
SW	3.7	.6	.8	.0	.0	.0	.0	5.1	1.3	.1	2.5	.1	1.0	.0		90.0
W	1.4	2.0	1.1	.0	.0	.0	.0	4.5	1.1	.2	2.0	.0	.9	.0		91.4
NW	.5	1.1	1.1	.0	.0	.0	.0	2.6	.9	*	2.0	.1	.9	*		93.5
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	1.2	.0	1.5	.8	2.7	.0		93.8
TOT PCT	.7	1.0	1.2	.0	.0	.0	.0	2.9	.8	.1	2.2	.1	.9	*		93.0
TOT OBS: 11111																

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00&03	.5	1.0	.6	.0	.0	.0	.0	2.0	.4	*	2.3	.1	.8		.1	94.3
06&09	.8	1.1	1.6	.0	.0	.0	.0	3.4	1.2	.1	1.7	.1	.7		.0	92.8
12&15	.8	1.6	1.8	.0	.0	.0	.0	4.3	.8	.2	2.7	.2	1.1		.0	90.8
18&21	.3	.6	.6	.0	.0	.0	.0	2.1	1.0	*	2.1	.1	.8		*	93.9
TOT PCT	.7	1.1	1.1	.0	.0	.0	.0	2.9	.8	.1	2.2	.1	.8		*	93.0
TOT OBS: 11269																

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	1.0	16.1	24.1	3.6	*	.0		44.9	13.1	46.1	46.6	42.4	45.5	42.3	47.7	45.4	46.4
NE	.4	4.5	4.4	.4	.0	.0		9.7	11.5	8.3	10.4	10.0	9.6	10.2	11.2	8.8	12.0
E	.3	1.6	.7	.1	.0	.0		2.7	9.1	2.4	3.5	2.6	2.5	2.7	3.7	2.1	3.3
SE	.3	.9	.3	.1	*	.0		1.7	9.7	1.4	1.9	1.4	2.3	1.6	1.1	1.8	2.3
S	.3	1.5	.9	.1	.0	.0		2.8	9.2	2.5	2.3	3.5	3.5	3.0	2.2	2.9	2.4
SW	.3	1.6	1.3	.1	.0	.0		3.3	9.6	3.3	2.7	3.7	2.7	2.7	2.7	3.7	4.0
W	.5	3.6	2.0	.3	*	.0		6.3	9.6	6.4	7.1	6.5	5.8	7.1	4.4	5.8	6.5
NW	.7	10.7	13.5	2.1	.1	.0		27.1	12.7	28.3	25.2	27.6	27.7	27.4	26.7	27.8	22.6
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.5							1.5	.0	1.3	.4	2.2	.4	2.9	.2	1.6	.5
TOT OBS							11910		12.1	2685	592	1924	511	2063	676	2160	1299
TOT PCT	5.3	40.4	47.3	6.8	.1	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	5.7	27.4	11.2	.6	.0		44.9	13.1	46.3	43.2	43.7	45.7
NE	1.9	5.9	1.8	.1	.0		9.7	11.5	8.7	9.9	10.5	9.9
E	1.0	1.6	.2	*	.0		2.7	9.1	2.6	2.6	3.0	2.6
SE	.7	.8	.1	*	.0		1.7	9.7	1.5	1.7	1.4	2.0
S	1.0	1.5	.4	*	.0		2.8	9.2	2.5	3.5	2.8	2.6
SW	.9	1.9	.5	*	.0		3.3	9.6	3.1	3.4	2.7	3.8
W	1.9	3.7	.6	.1	.0		6.3	9.6	6.5	6.3	6.3	6.2
NW	3.9	16.5	6.2	.5	.0		27.1	12.7	27.6	27.6	27.2	26.0
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	1.5						1.5	.0	1.1	1.8	2.2	1.2
TOT OBS						11910		12.1	3277	2435	2739	3459
TOT PCT	18.5	59.1	21.1	1.3	.0		100.0		100.0	100.0	100.0	100.0

ANNUAL

PERIOD: (PRIMARY) 1891-1974
(OVER-ALL) 1854-1974

AREA 0031 SAN DIEGO 200 SW
29.5N 122.4W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	1.1	3.8	38.0	50.0	6.9	.1	.0	12.4	100.0	3277
06&09	1.8	3.3	41.0	46.9	6.9	.1	.0	12.1	100.0	2435
12&15	2.2	3.5	42.5	45.0	6.5	.2	.0	11.9	100.0	2739
18&21	1.2	4.4	40.6	46.9	6.8	.1	.0	12.0	100.0	3459
TOT PCT	1.5	3.8	40.4	47.3	6.8	.1	.0	12.1	100.0	11910

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	8.2	6.1	15.5	14.6		5.3
NE	2.4	1.3	3.2	2.7		5.2
E	.6	.3	.6	.7		5.4
SE	.2	.2	.6	.6		6.1
S	.5	.3	1.0	1.0		5.9
SW	.6	.5	1.0	1.1		5.6
W	1.1	.9	2.2	2.2		5.7
NW	4.9	3.7	9.2	10.3		5.5
VAR	.0	.0	.0	.0		.0
CALM	.4	.2	.4	.7		5.2
TOT OBS					8224	5.4
TOT PCT	18.9	13.5	33.7	33.9	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.2	.1	.9	4.9	13.4	6.7	1.2	.2	.1	.1	16.6	
NE	.1	*	.2	1.0	2.2	1.0	.2	*	.1	.2	4.6	
E	*	*	*	.3	.5	.1	.1	*	*	*	1.2	
SE	*	*	*	.2	.3	.1	.1	*	*	*	.7	
S	*	*	.1	.3	.3	.4	.2	*	*	*	1.2	
SW	*	.0	.1	.3	.8	.4	.1	*	*	*	1.4	
W	.1	*	.1	.7	1.6	.8	.2	.1	*	*	2.6	
NW	.2	.1	.6	3.0	7.8	5.0	1.0	.2	.2	.1	9.9	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.1	.1	.5	.2	.1	.0	*	.0	.8	
TOT OBS												8224
TOT PCT	.6	.4	2.1	10.7	27.6	14.9	3.1	.6	.4	.5	39.1	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM) * OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >50YD	* OR >0
* OR >6500	.8	.9	.9	.9	.9	.9	.9	.9
* OR >5000	1.2	1.5	1.5	1.5	1.6	1.6	1.6	1.6
* OR >3500	3.7	4.5	4.7	4.7	4.7	4.7	4.7	4.7
* OR >2000	15.6	19.1	19.5	19.5	19.5	19.5	19.5	19.5
* OR >1000	36.7	46.2	47.0	47.1	47.1	47.1	47.1	47.1
* OR >600	44.1	56.3	57.6	57.7	57.7	57.8	57.8	57.8
* OR >300	45.4	58.2	59.6	59.8	59.8	59.8	59.9	59.9
* OR >150	45.6	58.5	59.9	60.1	60.2	60.2	60.3	60.3
* OR > 0	45.8	58.7	60.3	60.5	60.6	60.7	60.8	60.9

TOTAL NUMBER OF OBS: 8268

PCT FREQ NH <5/8: 39.1

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
8.8	6.3	8.9	8.2	6.6	6.6	11.0	14.5	28.8	.4	8605

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PERIOD: (PRIMARY) 1891-1974
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AREA 0031 SAN DIEGO 200 SW
29.5N 122.4W

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	PCP	*	*	.0	.0	.0	.0	.0	*	.0	.0	.1	
<1/2	NO PCP	*	*	*	*	*	*	*	.1	.0	*	.3	
	TOT %	.1	.1	*	*	*	*	*	.1	.0	*	.3	
	PCP	.1	*	.0	.0	.0	.0	*	*	.0	.0	.1	
1/2<1	NO PCP	.5	.1	*	*	*	.1	*	.1	.0	*	1.0	
	TOT %	.6	.1	*	*	*	.1	*	.2	.0	*	1.1	
	PCP	*	*	.0	*	*	*	*	*	.0	.0	.1	
1<2	NO PCP	.1	*	*	.0	*	*	*	*	.0	.0	.2	
	TOT %	.1	*	*	*	*	*	*	.1	.0	.0	.3	
	PCP	*	*	*	.1	*	.1	.1	.1	.0	.0	.4	
2<5	NO PCP	.5	.1	.1	*	*	.1	.1	.4	.0	*	1.4	
	TOT %	.6	.1	.1	.1	.1	.1	.2	.5	.0	*	1.8	
	PCP	.6	.1	.1	.1	.1	.1	.2	.4	.0	.0	1.6	
5<10	NO PCP	12.4	2.5	1.0	.5	.8	.8	1.6	7.4	.0	.2	27.3	
	TOT %	19.1	2.6	1.0	.6	.9	1.0	1.8	7.8	.0	.2	28.9	
	PCP	.2	*	*	*	.1	*	.1	.1	.0	.0	* .5	
10+	NO PCP	30.1	6.4	1.5	.9	1.8	2.0	4.1	18.8	.0	1.3	67.0	
	TOT %	30.3	6.5	1.5	.9	1.8	2.0	4.2	19.0	.0	1.3	67.5	
	TOT OBS												11092
	TOT PCT	44.7	9.4	2.7	1.7	2.9	3.2	6.3	27.6	.0	1.5	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	0-3	*	*	.0	.0	.0	*	*	.0	.0	*	*	
<1/2	4-10	*	*	*	*	*	*	*	.1	.0		.2	
	11-21	*	*	*	.0	.0	.0	*	*	.0		.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.1	.1	*	*	*	*	*	.1	.0	*	.3	
	0-3	*	.0	.0	.0	.0	*	.0	*	.0	*	*	
1/2<1	4-10	.3	*	*	*	.0	*	*	.1	.0		.5	
	11-21	.3	.1	.0	.0	*	*	*	.1	.0		.5	
	22+	*	*	.0	.0	.0	.0	.0	*	.0		*	
	TOT %	.6	.1	*	*	*	.1	*	.2	.0	*	1.1	
	0-3	*	.0	.0	.0	.0	.0	.0	*	.0	.0	*	
1<2	4-10	.1	*	*	*	*	*	*	*	.0		.2	
	11-21	*	*	.0	*	.0	.0	*	*	.0		.1	
	22+	.0	.0	.0	.0	.0	*	.0	.0	.0		*	
	TOT %	.1	*	*	*	*	*	*	.1	.0	.0	.3	
	0-3	*	*	*	*	*	*	*	*	.0	*	.1	
2<5	4-10	.2	.1	*	*	.1	.1	.1	.2	.0		.8	
	11-21	.3	.1	*	*	*	.1	*	.3	.0		.9	
	22+	*	*	*	*	.0	*	*	*	.0		.1	
	TOT %	.6	.1	.1	.1	.1	.1	.2	.5	.0	*	1.9	
	0-3	.3	.2	.1	.1	.1	.1	.2	.2	.0	.2	1.4	
5<10	4-10	4.8	1.1	.5	.3	.4	.4	1.0	2.9	.0		11.4	
	11-21	7.0	1.2	.3	.1	.3	.4	.6	4.1	.0		14.1	
	22+	.9	.1	*	*	.1	.1	.1	.6	.0		1.9	
	TOT %	13.0	2.6	1.0	.6	.9	1.0	1.8	7.7	.0	.2	28.8	
	0-3	.6	.2	.2	.2	.1	.2	.3	.4	.0	1.3	3.5	
10+	4-10	10.3	3.2	.9	.5	1.0	1.0	2.4	7.5	.0		26.9	
	11-21	16.6	2.8	.4	.2	.6	.8	1.4	9.3	.0		32.1	
	22+	2.8	.2	*	*	.1	*	.1	1.7	.0		5.0	
	TOT %	30.3	6.4	1.5	.9	1.9	2.0	4.2	18.9	.0	1.3	67.5	
	TOT OBS												11143
	TOT PCT	44.7	9.4	2.7	1.7	2.9	3.2	6.3	27.5	.0	1.6	100.0	

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PERIOD: (PRIMARY) 1891-1974
(OVER-ALL) 1854-1974

AREA 0031 SAN DIEGO 200 SW
29.5N 122.4W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET,NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00&03	.4	.2	2.3	10.6	26.3	14.9	3.2	.7	.5	.4	59.5	40.5	2450
06&09	.7	.3	2.0	10.1	25.3	14.1	2.5	.5	.4	.7	56.7	43.3	1899
12&15	.6	.5	2.1	10.4	30.7	14.9	2.3	.1	.4	.3	62.3	37.7	1754
18&21	.6	.5	2.0	11.0	27.4	14.9	4.2	1.0	.3	.6	62.5	37.5	2282
TOT PCT	.6	.4	2.1	10.5	27.3	14.7	3.1	.6	.4	.5	60.3	39.7	8385 100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00&03	.2	1.2	.3	1.4	27.5	69.4	3261
06&09	.5	.9	.3	2.4	29.2	66.7	2455
12&15	.5	1.4	.4	2.1	36.4	59.2	2732
18&21	.3	.9	.4	1.7	23.5	73.3	2853
TOT PCT	.3	1.1	.3	1.9	29.0	67.3	11301 100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET,NH >4/8),BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	.4	3.1	14.5	46.0	39.5	2415
06&09	.7	3.3	15.3	42.6	42.2	1872
12&15	.6	3.5	15.5	48.1	36.4	1729
18&21	.7	3.2	15.3	48.0	36.7	2252
TOT PCT	.6	3.2	15.1	46.2	38.7	8268 100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
80/84	.0	.0	.0	.0	*	*	.0	.0		*
75/79	.0	.0	.0	.1	.2	.1	*	*		.5
70/74	.0	.0	*	.2	1.1	2.1	.9	.3		4.6
65/69	.0	*	.1	.4	2.6	8.3	8.6	3.8		23.7
60/64	.0	.0	.1	1.0	5.8	15.2	17.8	7.4		47.4
55/59	.0	.0	.1	.7	3.9	7.5	6.9	3.1		22.2
50/54	.0	.0	.0	.1	.3	.2	.6	.1		1.4
45/49	.0	.0	.0	.0	.0	.0	*	.0		*
TOTAL PCT	.0	*	.3	2.6	14.1	33.4	34.8	14.7	8369	100.0

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
*	*	.0	.0	.0	.0	.0	.0	.0	.0
.2	*	*	*	.0	*	*	.1	.0	*
2.1	.5	.2	.1	*	.1	.2	1.3	.0	.1
10.5	1.8	.6	.3	.7	.8	1.6	6.8	.0	.6
20.8	4.5	1.2	.7	1.5	1.6	3.3	13.0	.0	.7
9.9	2.4	.3	.3	.5	.6	1.3	6.6	.0	.4
.6	.1	.1	*	*	*	.1	.5	.0	*
.0	.0	.0	*	*	.0	.0	.0	.0	.0
44.1	9.4	2.5	1.4	2.7	3.2	6.5	28.3	.0	1.9

TABLE 15

MEANS,EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00&03	82	73	69	63	59	56	51	63.7	3293
06&09	84	68	66	61	58	56	51	61.7	2468
12&15	84	68	65	61	57	55	48	61.2	2762
18&21	79	72	68	63	59	57	51	63.3	3449
TOT	84	72	68	62	58	56	48	62.6	11972

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00&03	.0	3.4	16.3	38.1	31.4	10.9	78	2371
06&09	.0	2.1	10.9	32.8	35.9	18.3	81	1907
12&15	.0	2.3	11.1	27.1	40.2	19.2	81	1903
18&21	.0	3.7	17.3	34.3	32.9	11.9	78	2263
TOT	0	214	1101	2647	3017	1265	79	8444

PERIOD: (PRIMARY) 1891-1974
(OVER-ALL) 1854-1974

AREA 0031 SAN DIEGO 200 SW
29.5N 122.4W

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	45 48	49 52	53 56	57 60	61 64	65 68	69 72	73 76	77 80	81 84	TOT	W FOG	WO FOG
14/16	.0	.0	.0	.0	.0	.0	*	*	.0	*	5	.0	*
11/13	.0	.0	.0	.0	*	*	.1	.1	*	.0	27	.0	.2
9/10	.0	.0	.0	*	*	.1	.3	.1	*	.0	57	.0	.6
7/8	.0	.0	.0	*	.1	.5	.4	.1	*	.0	119	.0	1.1
6	.0	.0	*	*	.2	.5	.3	.1	*	.0	127	*	1.2
5	.0	.0	.0	.1	.4	.9	.6	.2	*	.0	239	*	2.1
4	.0	.0	*	.2	.8	1.0	.6	.2	.0	.0	303	.1	2.8
3	.0	.0	*	.2	1.2	1.1	.6	.1	.0	.0	340	.1	3.1
2	.0	.0	*	.5	2.5	2.0	.6	*	.0	.0	624	.1	5.7
1	.0	*	.1	.9	3.2	2.4	.6	.1	.0	.0	786	.1	7.1
0	.0	*	.1	2.8	5.9	3.8	.4	*	.0	.0	1401	.3	12.7
-1	.0	*	.3	3.5	6.1	3.6	.2	*	.0	.0	1481	.5	13.2
-2	.0	*	.7	5.0	6.3	2.7	.2	*	.0	.0	1601	.3	14.5
-3	.0	*	.7	4.9	4.6	1.6	.1	.0	.0	.0	1268	.2	11.7
-4	.0	*	1.2	4.2	3.3	.9	*	.0	.0	.0	1018	.2	9.5
-5	.0	*	1.0	2.5	1.8	.4	*	.0	.0	.0	615	.1	5.8
-6	.0	*	.9	1.2	.7	.1	.0	.0	.0	.0	302	*	2.9
-7/-8	.0	.1	.7	1.2	.6	.1	.0	.0	.0	.0	266	*	2.7
-9/-10	*	.1	.1	.3	.1	*	.0	.0	.0	.0	63	.0	.6
-11/-13	.0	.1	*	*	.1	*	.0	.0	.0	.0	19	*	.2
-14/-16	.0	.0	*	.0	.0	.0	.0	.0	.0	.0	1	.0	*
TOTAL											10662		
PCT	*	.4	6.0	27.6	38.0	21.7	5.1	1.1	.1	*	100.0	2.2	97.8

PERIOD: (OVER-ALL) 1963-1974

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	1.6	.1	.0	.0	.0	1.9
1-2	.2	7.1	3.9	.0	.0	.0	11.3
3-4	.1	4.9	10.3	.7	.0	.0	15.9
5-6	.0	1.3	7.0	.9	.0	.0	9.2
7	*	.4	3.0	1.3	.0	.0	4.7
8-9	.0	.2	.7	.6	.0	.0	1.5
10-11	.0	*	.4	.4	.0	.0	.8
12	.0	.0	.2	.2	.0	.0	.3
13-16	.0	.0	.1	.1	.0	.0	.2
17-19	.0	.0	.0	*	.0	.0	*
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.5	15.4	25.7	4.2	.0	.0	45.8

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.6	*	.0	.0	.0	.7
1-2	.1	2.7	1.2	.0	.0	.0	4.0
3-4	.1	1.4	1.5	.1	.0	.0	3.1
5-6	.0	.3	1.1	.1	.0	.0	1.5
7	.0	*	.4	.1	.0	.0	.5
8-9	.0	.0	.1	.1	.0	.0	.2
10-11	.0	.0	*	*	.0	.0	.1
12	.0	.0	*	*	.0	.0	*
13-16	.0	*	*	.0	.0	.0	*
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	5.1	4.3	.4	.0	.0	10.1

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	.2	*	.0	.0	.0	.5
1-2	.1	.9	.2	.0	.0	.0	1.1
3-4	.0	.3	.2	.0	.0	.0	.5
5-6	.0	*	.3	.1	.0	.0	.4
7	.0	*	.1	*	.0	.0	.1
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	*	.0	.0	*
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	1.4	.7	.2	.0	.0	2.6

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.1	.0	.0	.0	.0	.2
1-2	.1	.4	.1	.0	.0	.0	.6
3-4	.0	.2	.2	*	.0	.0	.4
5-6	.0	.0	.1	*	.0	.0	.1
7	.0	.1	.0	*	.0	.0	.1
8-9	.0	.0	*	*	.0	.0	.1
10-11	.0	.0	.0	*	.0	.0	*
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	*	.0	.0	.0	*
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.1	.8	.4	.1	.0	.0	1.5

PERIOD: (OVER-ALL) 1963-1974

ANNUAL

TABLE 18 (CONT)

AREA 0031 SAN DIEGO 200 SW
29.9N 122.4W

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

	S							SW						
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.4	.0	.0	.0	.0	.5	.1	.4	.0	.0	.0	.0	.5
1-2	.0	.6	.2	.0	.0	.0	.8	.1	.5	.4	.0	.0	.0	.9
3-4	.0	.2	.3	*	.0	.0	.6	*	.4	.6	.1	.0	.0	1.1
5-6	.0	.1	.1	*	.0	.0	.2	.0	.1	.2	*	.0	.0	.4
7	.0	.0	*	*	.0	.0	.1	.0	*	.1	*	.0	.0	.2
8-9	.0	.0	*	*	.0	.0	*	.0	.0	.1	.0	.0	.0	.1
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	.0	.0	*
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	.0	.0	.0	*
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.1	1.2	.7	.1	.0	.0	2.2	.2	1.4	1.5	.1	.0	.0	3.1

	W							NW						TOTAL
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	PCT
<1	.2	.7	.0	.0	.0	.0	.9	.2	.9	*	.0	.0	.0	1.1	
1-2	.2	1.7	.3	.0	.0	.0	2.2	.3	5.2	2.3	.0	.0	.0	7.8	
3-4	*	.8	.8	.0	.0	.0	1.6	.1	3.1	4.9	.2	.0	.0	8.2	
5-6	.0	.3	.3	.0	.0	.0	.6	*	1.3	3.4	.5	.0	.0	5.2	
7	.0	.2	.2	.1	.0	.0	.4	.0	.2	1.9	.6	.0	.0	2.7	
8-9	.0	.1	.1	.0	.0	.0	.2	.0	.1	.6	.2	.0	.0	.9	
10-11	.0	*	.0	*	.0	.0	.1	.0	*	.2	.3	.0	.0	.5	
12	.0	.0	*	.0	.0	.0	*	.0	.0	*	.2	.0	.0	.2	
13-16	.0	.0	.0	*	.0	.0	*	.0	.0	.1	*	.0	.0	.1	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	.0	.0	*	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.4	3.7	1.8	.2	.0	.0	6.0	.6	10.7	13.4	2.1	.0	.0	26.8	98.2

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	3.1	4.9	.2	.0	.0	.0	8.1	
1-2	1.2	19.0	8.6	.0	.0	.0	28.8	
3-4	.3	11.2	18.7	1.1	.0	.0	31.3	
5-6	*	3.3	12.4	1.7	.0	.0	17.5	
7	*	.9	5.7	2.1	.0	.0	8.8	
8-9	.0	.3	1.7	1.0	.0	.0	3.0	
10-11	.0	.1	.6	.8	.0	.0	1.5	
12	.0	.0	.3	.4	.0	.0	.6	
13-16	.0	*	.2	.2	.0	.0	.5	
17-19	.0	.0	.0	.1	.0	.0	.1	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
								4917
TOT PCT	4.6	39.7	48.4	7.4	.0	.0	100.0	

PERIOD: (OVER-ALL) 1949-1973

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	1.3	7.6	14.5	7.3	3.4	1.0	.5	.2	.2	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	2623	4
6-7	*	1.5	6.9	9.8	6.5	3.0	1.7	.8	.4	.1	*	*	.0	.0	.0	.0	.0	.0	.0	2334	6
8-9	*	.4	2.4	4.0	4.9	2.8	1.6	.9	.6	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	1361	7
10-11	.0	.3	1.0	1.4	1.4	1.2	.7	.6	.5	.1	*	.0	.0	.0	.0	.0	.0	.0	.0	532	7
12-13	.0	.0	.5	.4	.6	.4	.4	.1	.3	.1	*	.0	.0	.0	.0	.0	.0	.0	.0	198	8
>13	.0	.0	.0	.2	.3	.3	.2	.1	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	96	9
INDET	1.3	.7	.5	.5	.5	.1	.1	*	*	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	262	3
TOTAL																				7404	5
PCT	2.6	10.5	25.8	23.7	17.6	8.8	5.3	2.8	2.4	.5	.1	*	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1891-1974
(OVER-ALL) 1854-1974

AREA 0031 SAN DIEGO 200 SW
29.5N 122.4W

TABLE 20

PERCENT FREQUENCY OF OCCURRENCE OF SEA TEMP (DEG F) BY MONTH

SEA TMP DEG F	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN	PCT
96+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
95/96	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
93/94	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
91/92	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
89/90	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
87/88	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
85/86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
83/84	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
81/82	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
79/80	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
77/78	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	1	*
75/76	.0	.0	.0	.0	.0	.0	.1	.0	.6	.4	.1	.0	14	.1
73/74	.0	.0	.0	.1	.1	.3	.6	.3	2.3	1.3	.2	.1	53	.5
71/72	.1	.0	.0	.3	.3	.0	1.1	3.5	6.4	3.8	1.0	.1	169	1.5
69/70	.1	.4	.1	.9	.8	1.2	3.4	10.3	16.9	13.7	4.9	.3	540	4.7
67/68	1.4	.4	.9	.3	1.2	5.1	17.9	31.2	29.9	31.4	20.8	5.1	1469	12.9
65/66	6.6	3.2	3.0	4.6	6.5	17.6	28.1	33.8	27.0	29.9	28.6	18.2	2046	17.9
63/64	23.1	19.3	17.3	17.9	29.5	36.0	32.1	18.0	14.7	16.1	33.3	36.9	2794	24.5
61/62	35.9	30.0	33.1	31.0	34.2	28.3	11.3	1.8	1.5	2.6	8.3	27.0	2254	19.8
59/60	21.5	31.1	28.9	32.8	21.5	9.1	4.1	.8	.4	.4	2.7	10.0	1471	12.9
57/58	8.0	10.0	11.7	10.2	4.4	1.6	.8	.3	.2	.1	.1	1.7	431	3.8
55/56	2.2	3.6	3.0	1.6	1.0	.7	.3	.1	.1	.1	.0	.6	115	1.0
53/54	.6	1.4	1.4	.1	.4	.0	.1	.0	.0	.0	.0	.0	34	.3
51/52	.5	.2	.3	.1	.3	.0	.0	.0	.0	.0	.0	.0	12	.1
49/50	.0	.5	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	6	.1
47/48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
45/46	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
43/44	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
41/42	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
39/40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
37/38	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
35/36	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
33/34	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
31/32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
29/30	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
27/28	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
<27	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
TOTAL	940	808	692	960	1156	1108	999	1108	896	1172	860	710	11409	100.0
MEAN	61.3	60.6	60.6	61.0	61.8	63.1	64.7	66.3	67.1	66.6	65.1	63.0	63.4	

TABLE 21

PRESSURE (MB)

AVERAGE BY HOUR (GMT)

MO	0000	0300	0600	0900	1200	1500	1800	2100	MEAN	TOTAL OBS
JAN	1020	1021	1022	1022	1020	1021	1022	1021	1021	723
FEB	1018	1020	1020	1019	1019	1020	1021	1020	1020	725
MAR	1020	1019	1021	1016	1020	1020	1021	1020	1020	609
APR	1019	1019	1020	1019	1019	1020	1021	1020	1020	895
MAY	1018	1017	1019	1019	1018	1018	1019	1018	1019	1075
JUN	1017	1016	1018	1016	1016	1016	1018	1018	1017	1108
JUL	1016	1016	1017	1016	1016	1017	1017	1017	1017	985
AUG	1015	1016	1016	1016	1016	1016	1017	1017	1016	996
SEP	1014	1014	1015	1014	1015	1014	1016	1015	1015	801
OCT	1016	1016	1017	1016	1016	1016	1017	1017	1016	888
NOV	1017	1019	1019	1019	1018	1019	1020	1018	1018	705
DEC	1019	1020	1021	1019	1019	1021	1021	1021	1020	533
ANN	1017	1018	1019	1018	1018	1018	1019	1019	1018	10043
OBS	2404	326	1931	267	1815	408	2141	751		

PERCENTILES

MO	MIN	1%	5%	25%	50%	75%	95%	99%	MAX
JAN	1006	1012	1015	1019	1021	1024	1027	1028	1031
FEB	1005	1007	1012	1017	1020	1023	1026	1028	1031
MAR	1008	1010	1013	1018	1021	1023	1026	1028	1031
APR	1009	1011	1014	1018	1020	1022	1025	1027	1031
MAY	1008	1012	1014	1017	1019	1021	1023	1025	1027
JUN	1006	1009	1012	1015	1017	1019	1022	1023	1027
JUL	1009	1010	1013	1015	1017	1018	1020	1022	1024
AUG	1007	1009	1012	1015	1016	1018	1020	1022	1023
SEP	1005	1007	1010	1013	1015	1017	1019	1021	1022
OCT	1007	1009	1012	1015	1017	1018	1021	1022	1024
NOV	1002	1004	1012	1017	1019	1021	1024	1027	1029
DEC	1005	1009	1014	1018	1020	1023	1027	1029	1031

JANUARY

PERIOD: (PRIMARY) 1944-1974
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AREA 0032 SAN DIEGO
32.6N 118.0W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA				
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	.6	.1	.6	.0	.0	.0	.0	1.3	.2	*	7.9	.2	7.8		.1	82.6
NE	1.2	.1	.7	.0	.0	.0	.0	1.7	.5	*	4.9	.1	10.0		.1	82.7
E	3.1	.4	1.6	.0	.0	.0	.0	4.6	1.4	.1	4.9	.2	8.4		.1	80.5
SE	6.7	1.3	2.2	.0	.0	.0	.0	10.0	1.9	.0	6.1	.1	7.9		.0	74.0
S	7.5	2.3	2.6	.0	.0	.0	.1	12.3	1.9	.0	6.3	.3	5.6		.0	73.5
SW	4.3	1.7	2.2	.0	.0	.0	.1	7.7	1.5	.0	6.8	.3	5.7		.1	77.8
W	1.2	1.0	1.4	.0	.0	.0	*	3.5	1.1	.0	5.3	.3	6.1		.0	83.7
NW	.5	.4	1.2	.0	.0	.0	.0	2.0	.5	.1	5.1	.2	6.6		.1	85.5
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	.0
CALM	.5	.1	.8	.0	.0	.0	.1	1.6	.1	.0	17.4	.0	13.9		.0	66.9
TOT PCT	1.9	.7	1.3	.0	.0	.0	*	3.8	.8	*	6.4	.2	7.4		.1	81.4
TOT OBS:	14527															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA				
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00&03	1.8	.6	1.1	.0	.0	.0	*	3.3	.6	*	5.1	.2	8.0		.1	82.7
06&09	1.8	.6	2.1	.0	.0	.0	*	4.4	1.3	*	6.9	.3	4.7		*	82.3
12&15	2.2	.9	1.5	.0	.0	.0	*	4.4	.8	.1	6.8	.2	7.1		.0	80.6
18&21	1.9	.7	1.0	.0	.0	.0	0	3.3	.7	.0	7.0	.1	8.8		.1	80.0
TOT PCT	1.9	.7	1.3	.0	.0	.0	*	3.8	.8	*	6.4	.2	7.4		.1	81.3
TOT OBS:	14674															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	2.0	8.5	4.7	.3	*	*		15.6	9.0	13.2	16.2	16.8	15.5	17.6	14.8	18.1	13.7
NE	1.4	4.3	1.6	.1	*	.0		7.4	7.8	3.3	5.8	5.8	6.3	8.5	13.7	11.0	5.9
E	1.4	3.6	1.1	.1	*	.0		6.2	7.4	2.2	4.4	4.8	6.5	6.1	12.9	9.8	4.8
SE	1.1	3.2	1.2	.2	*	.0		5.8	8.2	3.4	5.1	5.4	5.2	6.1	8.8	6.5	6.2
S	1.2	3.2	1.6	.4	*	.0		6.3	9.2	6.6	5.8	5.8	5.0	5.4	5.6	6.2	9.2
SW	1.1	3.6	1.5	.2	*	.0		6.5	8.2	7.8	6.7	6.0	5.1	5.2	4.8	6.0	8.6
W	1.7	8.9	5.1	.8	*	.0		16.6	9.8	22.8	18.7	15.6	17.2	13.7	11.3	13.1	18.7
NW	2.5	14.6	11.2	1.9	.1	*		30.1	10.8	37.8	32.7	34.5	31.1	30.6	20.6	23.7	28.5
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	5.4							5.4	.0	2.9	4.7	5.3	8.2	6.8	7.7	5.6	4.4
TOT OBS	2660	7471	4202	596	39	1	14969		8.9	2756	1365	1884	918	2001	1725	2265	2055
TOT PCT	17.8	49.9	28.1	4.0	.3	*		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	5.4	9.0	1.1	.1	*		15.6	9.0	14.2	16.4	16.3	16.0
NE	3.5	3.5	.4	*	.0		7.4	7.8	4.1	5.9	10.9	8.6
E	3.2	2.6	.3	*	*		6.2	7.4	2.9	5.4	9.2	7.4
SE	2.7	2.5	.5	.1	*		5.8	8.2	4.0	5.4	7.4	6.4
S	2.8	2.6	.7	.1	*		6.3	9.2	6.3	5.5	5.5	7.6
SW	2.9	3.0	.5	*	.0		6.5	8.2	7.5	5.7	5.0	7.2
W	5.5	9.1	1.8	.3	.0		16.6	9.8	21.5	16.1	12.6	15.8
NW	7.9	17.4	4.3	.5	*		30.1	10.8	36.1	33.4	26.0	26.0
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	5.4						5.4	.0	3.5	6.2	7.2	5.0
TOT OBS	5902	7452	1442	170	3	14969		8.9	4121	2802	3726	4320
TOT PCT	39.4	49.8	9.6	1.1	*		100.0		100.0	100.0	100.0	100.0

JANUARY

PERIOD: (PRIMARY) 1944-1974
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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	3.5	10.4	49.4	32.0	4.3	.3	*	9.5	100.0	4121
06&09	6.2	9.5	48.8	30.7	4.6	.2	.0	9.4	100.0	2802
12&15	7.2	16.0	49.3	23.2	4.0	.2	.0	8.2	100.0	3726
18&21	5.0	13.1	51.6	26.8	3.2	.3	.0	8.7	100.0	4320
TOT	802	1858	7471	4202	596	39	1	8.9		14969
PCT	5.4	12.4	49.9	28.1	4.0	.3	*		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	9.9	1.7	3.1	2.4		2.9
NE	4.4	.8	1.4	1.0		2.8
E	3.0	.7	1.1	1.3		3.5
SE	1.4	.4	1.3	2.3		5.3
S	1.1	.6	1.6	2.7		5.7
SW	1.5	.7	1.6	2.3		5.2
W	5.9	2.2	4.5	3.5		4.2
NW	14.7	3.9	6.7	4.9		3.4
VAR	.0	.0	.0	.0		.0
CALM	2.5	.5	.9	1.4		3.7
TOT OBS	4378	1143	2207	2171	9899	3.8
TOT PCT	44.2	11.5	22.3	21.9	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.5	*	.1	.3	1.0	.7	.1	.1	.1	.4	13.9	
NE	.2	*	*	.1	.4	.3	.1	*	*	.2	6.2	
E	.1	*	*	.1	.5	.5	.1	.1	.1	.1	4.5	
SE	.2	*	.1	.3	1.0	.7	.1	*	.1	.2	2.6	
S	.3	*	.1	.4	1.2	.9	.1	.1	.1	.1	2.8	
SW	.3	*	.1	.3	1.1	.7	.2	.1	*	.1	3.1	
W	.4	.1	.3	.6	2.2	1.4	.3	.1	.1	.2	10.4	
NW	.6	*	.3	.9	2.6	1.9	.4	.1	.2	.3	22.7	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.6	*	*	.1	.3	.3	.1	*	.1	.1	3.6	
TOT OBS	310	19	112	315	1031	735	147	62	83	177	6908	9899
TOT PCT	3.1	.2	1.1	3.2	10.4	7.4	1.5	.6	.8	1.8	69.8	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM) * OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >50YD	* OR >0
* OR >6500	1.3	2.5	2.6	2.6	2.6	2.6	2.6	2.6
* OR >5000	1.7	3.1	3.2	3.2	3.2	3.2	3.2	3.2
* OR >3500	2.6	4.5	4.7	4.7	4.7	4.7	4.7	4.7
* OR >2000	6.6	11.6	12.1	12.2	12.2	12.2	12.2	12.2
* OR >1000	11.4	21.2	22.4	22.5	22.6	22.6	22.6	22.6
* OR >600	12.6	23.8	25.4	25.6	25.7	25.7	25.7	25.8
* OR >300	12.8	24.4	26.3	26.6	26.8	26.9	26.9	26.9
* OR >150	12.8	24.5	26.4	26.7	26.9	27.0	27.1	27.1
* OR > 0	12.9	24.7	26.8	27.5	28.0	28.5	29.3	30.2
TOTAL	1284	2462	2673	2744	2795	2841	2910	3011

TOTAL NUMBER OF OBS: 9970

PCT FREQ NH <5/8: 69.8

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
38.8	8.0	12.8	6.1	3.8	4.7	3.8	4.1	12.6	2.3	10284

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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	*	.0	*	*	.0	*	*	.1	.0	.0	.1	
	NO PCP	.5	.1	.1	.1	.1	.2	.3	.5	.0	.5	2.4	
	TOT %	.5	.1	.1	.1	.1	.2	.3	.6	.0	.5	2.5	
1/2<1	PCP	.0	.0	*	.0	*	*	*	*	.0	.0	.1	
	NO PCP	.1	*	.1	.1	.1	*	.1	.2	.0	.1	.8	
	TOT %	.1	*	.1	.1	.1	.1	.1	.2	.0	.1	1.0	
1<2	PCP	*	*	*	.1	.1	.1	.1	*	.0	*	.6	
	NO PCP	.1	.1	.1	.2	.1	.1	.2	.4	.0	.2	1.6	
	TOT %	.2	.1	.1	.2	.2	.2	.3	.4	.0	.2	2.2	
2<5	PCP	.1	*	.1	.1	.2	.1	.2	.1	.0	*	.9	
	NO PCP	.7	.4	.3	.3	.3	.3	.6	1.0	.0	.4	4.4	
	TOT %	.7	.4	.3	.4	.5	.4	.8	1.1	.0	.4	5.3	
5<10	PCP	.1	.1	.1	.3	.3	.2	.2	.2	.0	*	1.5	
	NO PCP	3.1	2.4	2.2	2.0	2.1	1.9	5.0	9.1	.0	1.7	31.4	
	TOT %	3.2	2.4	2.3	2.2	2.4	2.1	5.1	9.3	.0	1.7	32.9	
10+	PCP	.1	*	*	.1	.1	.1	.1	.1	.0	*	.7	
	NO PCP	9.0	4.3	3.2	2.7	2.9	3.5	9.8	18.3	.0	2.2	55.9	
	TOT %	9.0	4.3	3.3	2.8	3.1	3.6	9.9	18.4	.0	2.2	56.6	
	TOT OBS												14523
	TOT PCT	15.7	7.5	6.3	5.8	6.4	6.5	16.6	30.1	.0	5.1	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.1	*	*	*	*	*	*	.1	.0	.5	.9	
	4-10	.3	.1	.1	.1	.1	.1	.2	.4	.0		1.4	
	11-21	.1	*	*	*	*	*	.1	.1	.0		.2	
	22+	*	.0	.0	*	*	.0	.0	.0	.0		*	
	TOT %	.5	.1	.1	.1	.1	.2	.3	.6	.0	.5	2.5	
1/2<1	0-3	*	*	.1	*	*	*	*	*	.0	.1	.3	
	4-10	.1	*	*	*	*	*	.1	.1	.0		.4	
	11-21	*	*	*	*	*	*	.1	.1	.0		.2	
	22+	.0	.0	.0	.0	*	*	*	*	.0		*	
	TOT %	.1	.1	.1	.1	.1	.1	.2	.2	.0	.1	1.0	
1<2	0-3	.1	*	.1	.1	.1	*	.1	.1	.0	.2	.7	
	4-10	.1	.1	.1	.1	.1	.1	.2	.3	.0		.9	
	11-21	*	*	*	*	.1	*	.1	.1	.0		.4	
	22+	.0	.0	.0	*	*	*	.0	.0	.0		.1	
	TOT %	.2	.1	.1	.2	.2	.2	.3	.5	.0	.2	2.1	
2<5	0-3	.2	.1	.1	.1	.1	.1	.1	.2	.0	.4	1.3	
	4-10	.4	.2	.2	.2	.2	.2	.4	.5	.0		2.3	
	11-21	.1	.1	*	.1	.1	.1	.2	.4	.0		1.3	
	22+	*	*	*	*	.1	*	*	*	.0		.2	
	TOT %	.7	.4	.3	.4	.5	.4	.8	1.1	.0	.4	5.0	
5<10	0-3	.7	.6	.6	.4	.4	.3	.5	.9	.0	1.7	6.1	
	4-10	2.9	1.4	1.4	1.2	1.2	1.1	2.8	4.6	.0		16.6	
	11-21	1.5	.4	.3	.4	.6	.6	1.5	3.3	.0		8.6	
	22+	.1	*	.1	.1	.2	.1	.3	.4	.0		1.2	
	TOT %	5.1	2.4	2.3	2.2	2.4	2.0	5.1	9.2	.0	1.7	32.5	
10+	0-3	.9	.6	.6	.5	.6	.6	.9	1.2	.0	2.3	8.2	
	4-10	4.8	2.5	1.9	1.6	1.6	2.1	5.3	8.5	.0		28.3	
	11-21	3.0	1.1	.8	.6	.8	.8	3.2	7.3	.0		17.5	
	22+	.3	.1	.1	.1	.1	.1	.6	1.5	.0		2.8	
	TOT %	9.0	4.3	3.3	2.8	3.0	3.6	9.9	18.5	.0	2.3	56.9	
	TOT OBS												14826
	TOT PCT	15.6	7.5	6.3	5.8	6.4	6.5	16.6	30.1	.0	5.3	100.0	

JANUARY

PERIOD: (PRIMARY) 1944-1974
(OVER-ALL) 1890-1974

AREA 0032 SAN DIEGO
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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET,NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 2999	3000 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00&03	2.5	.2	1.4	2.7	9.5	7.4	1.5	.7	.6	2.0	28.6	71.4	2964
06&09	3.0	.1	1.0	3.3	9.2	6.9	1.1	.5	.9	1.4	27.2	72.8	2350
12&15	3.6	.2	1.0	3.3	12.1	7.6	1.5	.9	.7	1.3	32.3	67.7	2419
18&21	3.2	.2	1.1	3.2	10.2	7.4	1.7	.4	.8	2.3	30.5	69.5	2826
TOT	312	19	112	316	1041	743	148	62	83	179	3015	7146	10161
PCT	3.1	.2	1.1	3.1	10.2	7.3	1.5	.6	.8	1.8	29.7	70.3	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00&03	1.7	.8	2.1	5.5	32.7	57.2	4118
06&09	3.3	.9	1.1	2.7	35.0	57.1	2801
12&15	3.0	1.3	2.9	5.0	33.5	54.3	3734
18&21	2.5	1.0	2.2	6.3	29.5	58.5	4325
TOT	382	145	322	761	4856	8512	14978
PCT	2.6	1.0	2.1	5.1	32.4	56.8	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET,NH >4/8), BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <3	1000+ AND5+	NH <5/8 AND 9+	TOTAL OBS
00&03	2.5	4.8	11.2	21.2	67.5	2916
06&09	3.1	5.0	10.3	18.9	70.8	2330
12&15	3.8	5.7	11.9	23.2	64.9	2370
18&21	3.4	5.6	14.1	21.3	64.6	2745
TOT	319	523	1193	2112	6665	9970
PCT	3.2	5.2	12.0	21.2	66.9	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
80/84	*	.0	.0	.0	.0	*	.0	.0	3	*
75/79	.1	.1	*	*	*	*	*	*	30	.3
70/74	.2	.1	.2	.2	.1	.1	*	*	113	1.0
65/69	.2	.2	.5	.7	1.0	.9	.4	.1	480	4.1
60/64	.1	.5	1.2	2.1	4.3	6.8	6.2	2.1	2756	23.6
55/59	.1	.4	1.3	2.9	6.8	14.0	15.8	8.6	5829	49.8
50/54	.1	.2	.6	1.8	3.8	2.9	5.0	3.8	2146	18.4
45/49	.0	.1	.1	.3	.5	.5	.6	.5	299	2.6
40/44	.0	.0	*	.1	.1	.1	.1	.1	37	.3
35/39	.0	.0	.0	*	.0	.0	.0	.0	1	*
TOTAL	101	193	473	957	1960	2953	3291	1766	11694	100.0
PCT	.9	1.7	4.0	8.2	16.8	25.3	28.1	15.1		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.0	*	.0	.0	*	*	.0	.0
*	*	*	*	.0	*	*	.1	.0	*
.2	.1	*	*	*	*	.2	.4	.0	.1
.6	.3	.2	.2	.2	.3	.7	1.3	.0	.2
4.0	1.8	1.2	1.1	1.9	1.6	3.6	7.3	.0	1.0
7.7	3.3	2.6	3.0	3.1	3.3	8.8	15.7	.0	2.3
2.6	1.4	1.6	1.1	.9	1.3	3.0	5.6	.0	.9
.3	.5	.5	.3	.1	.2	.2	.3	.0	.2
*	.1	.1	.1	*	.0	*	*	.0	*
.0	*	.0	.0	.0	.0	.0	.0	.0	.0
15.4	7.5	6.2	5.8	6.3	6.7	16.5	30.7	.0	4.8

TABLE 15

MEANS,EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00&03	84	71	66	58	52	48	43	58.6	4136
06&09	78	66	63	57	51	48	43	57.0	2808
12&15	70	64	62	56	48	44	38	55.7	3760
18&21	80	71	66	58	52	48	39	58.8	4314
TOT	84	70	65	58	51	46	38	57.6	15018

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00&03	1.1	15.5	16.9	26.4	26.8	13.3	74	3384
06&09	.2	9.3	14.6	24.2	32.1	19.5	78	2050
12&15	.2	8.9	15.3	24.6	31.8	19.1	78	2939
18&21	1.5	19.2	19.1	25.3	24.0	10.9	72	3460
TOT	101	1642	1979	2983	3323	1785	75	11813

PERIOD: (PRIMARY) 1944-1974
(OVER-ALL) 1890-1974

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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	37 40	41 44	45 48	49 52	53 56	57 60	61 64	65 68	69 72	73 76	77 80	81 84	TOT	W FOG	WO FOG
23/25	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	*	.0	2	.0	*
20/22	.0	.0	.0	.0	.0	.0	.0	.0	*	*	*	*	8	.0	.1
17/19	.0	.0	.0	.0	.0	.0	.0	.0	*	*	.1	.0	9	.0	.1
14/16	.0	.0	.0	.0	.0	*	*	*	.1	.2	.0	.0	45	*	.3
11/13	.0	.0	.0	.0	*	.0	*	.3	.4	.1	.0	.0	113	*	.8
9/10	.0	.0	.0	.0	*	.1	.2	.4	.4	*	.0	.0	147	.1	1.0
7/8	.0	.0	.0	.0	*	.2	.7	1.1	.1	*	.0	.0	292	*	2.1
6	.0	.0	.0	.0	.1	.2	.7	.4	*	.0	.0	.0	196	*	1.4
5	.0	.0	*	.0	.2	.4	1.3	.3	*	.0	.0	.0	331	.1	2.4
4	.0	.0	.0	*	.4	1.0	1.7	.2	*	.0	.0	.0	453	.1	3.2
3	.0	.0	.0	*	.3	2.0	2.1	.2	.0	.0	.0	.0	634	.2	4.5
2	.0	.0	.0	*	.7	3.0	2.2	.2	.0	.0	.0	.0	920	.3	6.5
1	.0	.0	.0	.1	1.0	5.1	2.2	.1	.0	.0	.0	.0	1140	.5	7.9
0	.0	.0	*	.2	2.3	6.6	1.7	*	.0	.0	.0	.0	1469	.5	10.4
-1	.0	.0	.0	.2	3.2	6.3	1.4	*	.0	.0	.0	.0	1495	.7	10.4
-2	.0	.0	.0	.4	4.9	5.9	.7	*	.0	.0	.0	.0	1605	.7	11.2
-3	.0	.0	.0	.4	4.9	4.5	.3	*	.0	.0	.0	.0	1366	.9	9.2
-4	.0	.0	.1	1.4	4.2	2.1	.1	*	*	.0	.0	.0	1061	.8	7.1
-5	.0	*	*	1.1	3.1	1.5	.1	*	.0	.0	.0	.0	782	.4	5.4
-6	.0	.0	.1	1.3	1.9	.5	*	.0	.0	.0	.0	.0	519	.4	3.5
-7/-8	.0	*	.4	1.4	1.5	.3	*	.0	.0	.0	.0	.0	505	.3	3.4
-9/-10	*	.1	.5	.7	.4	.1	.0	.0	.0	.0	.0	.0	232	.1	1.6
-11/-13	*	.1	.4	.2	.1	.1	*	.0	.0	.0	.0	.0	122	*	.9
-14/-16	.0	.1	.1	*	.1	.0	.0	.0	.0	.0	.0	.0	30	.0	.2
-17/-19	*	*	*	*	.0	.0	.0	.0	.0	.0	.0	.0	8	.0	.1
-20/-22	.0	.0	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	1	.0	*
TOTAL	3	35	211	1010	3945	5497	2096	488	141	46	12	1	13485	830	12655
PCT	*	.3	1.6	7.5	29.3	40.8	15.5	3.6	1.0	.3	.1	*	100.0	6.2	93.8

PERIOD: (OVER-ALL) 1963-1974

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.7	2.6	.1	.0	.0	.0	3.3
1-2	.6	5.0	2.7	.0	.0	.0	8.2
3-4	.1	1.5	1.3	.2	.0	.0	3.0
5-6	.0	.1	.6	.1	.0	.0	.8
7	*	*	.2	.1	.0	.0	.4
8-9	.0	.0	.1	.0	.0	.0	.1
10-11	.0	.0	.0	*	.0	.0	*
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.4	9.2	5.0	.4	.0	.0	16.0

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.4	2.0	*	.0	.0	.0	2.5
1-2	.4	2.3	1.0	.0	.0	.0	3.7
3-4	.0	.4	.3	*	.0	.0	.7
5-6	.0	.0	.2	.1	.0	.0	.3
7	.0	.0	.1	.0	.0	.0	.1
8-9	.0	.0	.0	*	*	.0	.1
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.8	4.7	1.6	.1	*	.0	7.3

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	1.6	.1	.0	.0	.0	2.0
1-2	.3	1.9	.4	.0	.0	.0	2.6
3-4	.1	.4	.4	*	.0	.0	.8
5-6	.0	*	.1	.0	.0	.0	.1
7	.0	.0	*	.0	.0	.0	*
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.7	3.9	1.0	*	.0	.0	5.5

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.4	1.0	*	.0	.0	.0	1.4
1-2	.1	1.6	.6	.0	.0	.0	2.3
3-4	*	.3	.3	.1	.0	.0	.8
5-6	.0	.1	*	.0	.0	.0	.1
7	.0	.0	*	.0	.0	.0	*
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	*	.0	.0	.0	.0	*
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.5	2.9	1.0	.1	.0	.0	4.6

PERIOD: (OVER-ALL) 1963-1974 JANUARY AREA 0032 SAN DIEGO 32.6N 118.0W

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

S

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	1.2	.0	.0	.0	.0	1.5
1-2	.5	1.8	.7	.0	.0	.0	3.0
3-4	.0	.3	.4	.3	.0	.0	1.0
5-6	.0	.0	.2	.0	.0	.0	.2
7	.0	.0	.0	.0	*	.0	*
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	*	.0	.0	.0	.0	*
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.8	3.3	1.4	.3	*	.0	5.8

SW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.5	1.3	*	.0	.0	.0	1.8
1-2	.3	1.7	.6	.0	.0	.0	2.7
3-4	.1	.4	.3	.1	.0	.0	.9
5-6	.0	*	.1	.1	.0	.0	.2
7	.0	*	.0	*	.0	.0	.1
8-9	.0	.0	.0	*	.0	.0	*
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.9	3.3	1.1	.2	.0	.0	5.7

W

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.6	2.2	.1	.0	.0	.0	2.9
1-2	.7	5.3	2.5	.0	.0	.0	8.4
3-4	.1	1.6	2.0	.5	.0	.0	4.2
5-6	.0	.2	.3	.2	.0	.0	.7
7	.0	.1	.1	*	*	.0	.3
8-9	.0	*	*	*	*	.0	.1
10-11	.0	.0	*	.0	.0	.0	*
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.5	9.4	5.0	.7	.1	.0	16.7

NW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.7	3.8	.3	.0	.0	.0	4.9	
1-2	.8	10.2	5.6	.0	.0	.0	16.6	
3-4	.1	2.7	4.2	1.0	.0	.0	8.0	
5-6	*	.4	1.3	.3	*	.0	2.0	
7	*	*	.7	.3	.1	.0	1.1	
8-9	.0	*	.2	.2	.0	.0	.5	
10-11	.0	.0	.1	.2	.0	.0	.3	
12	.0	*	.1	*	.0	.0	.1	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	1.7	17.2	12.6	1.9	.1	.0	33.5	95.0

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	8.8	15.7	.8	.0	.0	.0	25.3	
1-2	4.0	29.6	14.1	.0	.0	.0	47.8	
3-4	.6	7.6	9.2	2.1	.0	.0	19.6	
5-6	*	.8	2.6	.8	*	.0	4.3	
7	*	.2	1.2	.4	.1	.0	1.9	
8-9	.0	.1	.4	.3	.1	.0	.8	
10-11	.0	*	.1	.2	.0	.0	.4	
12	.0	*	.1	*	.0	.0	.1	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	13.4	54.1	28.5	3.8	.2	.0	100.0	3405

PERIOD: (OVER-ALL) 1949-1974

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	3.9	22.7	18.7	4.2	1.6	.3	.1	*	*	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	4062	3
6-7	.1	4.0	6.8	3.2	2.1	1.0	.2	.1	.1	*	*	.0	.0	.0	.0	.0	.0	.0	.0	1389	4
8-9	.1	1.9	2.3	1.7	1.2	.3	.3	.1	.1	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	686	5
10-11	.0	.8	.8	.5	.5	.3	.1	.1	.1	*	*	.0	.0	.0	.0	.0	.0	.0	.0	258	5
12-13	.0	.0	.5	.2	.1	.2	.1	*	*	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	93	5
>13	.0	.0	.0	*	.1	.1	*	*	*	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	23	9
INDET	14.2	2.7	.7	.3	.1	.1	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1432	1
TOTAL	1441	2561	2360	806	492	171	68	20	19	7	2	0	0	0	0	0	0	0	0	7893	3
PCT	18.3	32.2	29.9	10.2	5.7	2.2	.9	.3	.2	.1	*	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

FEBRUARY

PERIOD: (PRIMARY) 1944-1974
(OVER-ALL) 1888-1974

AREA 0032 SAN DIEGO
32.9N 118.0W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA				
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	.7	.3	.2	.0	.0	.0	.0	1.2	.4	.1	6.1	.2	7.6		.1	84.3
NE	.8	.4	.3	.0	.0	.0	.0	1.8	.3	.1	5.2	.1	7.9		.1	84.6
E	1.9	.8	.9	.0	.0	.0	.0	3.6	.5	.0	8.0	.6	8.6		.0	78.6
SE	7.1	1.3	3.6	.0	.0	.0	.0	11.3	2.9	.0	6.8	.3	6.7		*	72.0
S	9.7	1.9	3.8	.0	.0	.0	.0	15.0	2.0	.0	6.8	.2	6.8		.1	69.1
SW	4.4	1.6	2.9	.0	.0	.0	.0	8.8	1.5	.0	8.3	.0	6.1		.0	75.3
W	1.1	.7	1.2	.0	.0	.0	*	3.0	1.6	.1	6.1	.3	6.2		.0	82.7
NW	.6	.2	.8	.0	.0	.0	*	1.7	.8	*	5.3	.2	5.7		.0	86.4
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	.0
CALM	.8	.2	.4	.0	.0	.0	.0	1.4	.8	.2	11.5	.2	10.2		.0	75.8
TOT PCT	2.0	.6	1.2	.0	.0	.0	*	3.8	1.1	.1	6.3	.2	6.7		*	81.8
TOT OBS:	12222															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA				
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00&03	2.2	.5	1.0	.0	.0	.0	*	3.6	1.0	.1	4.8	.2	6.4		*	84.0
06&09	1.6	.5	1.9	.0	.0	.0	.0	4.0	1.1	.2	6.3	.2	3.9		*	84.3
12&15	2.4	.8	1.3	.0	.0	.0	.0	4.4	1.2	*	7.0	.4	5.4		.0	81.5
18&21	1.7	.7	1.0	.0	.0	.0	.0	3.3	1.1	*	7.3	.1	9.9		*	78.3
TOT PCT	2.0	.6	1.2	.0	.0	.0	*	3.8	1.1	.1	6.3	.2	6.7		*	81.8
TOT OBS:	12336															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)						
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	1.9	7.8	4.1	.5	*	.0		14.4	9.2	10.2	14.9	14.9	14.2	17.7	16.5	16.7	11.2
NE	1.2	3.3	1.1	*	*	.0		5.7	7.4	2.4	4.3	5.0	6.0	7.0	9.6	7.8	4.6
E	1.1	2.9	.7	.1	.0	.0		4.8	6.8	1.7	2.5	3.4	4.8	5.7	9.3	8.1	3.5
SE	1.2	2.6	1.1	.2	*	*		5.1	8.4	3.0	4.2	4.4	5.1	3.6	8.5	7.0	6.1
S	1.1	3.2	1.6	.5	*	*		6.4	9.8	6.0	7.0	4.3	5.1	4.9	7.8	6.1	9.9
SW	1.1	4.0	1.6	.2	*	.0		6.8	8.4	8.1	6.7	5.9	6.6	5.0	5.5	6.5	9.5
W	1.7	9.5	6.4	1.1	.1	.0		18.8	10.3	25.6	21.8	19.5	18.8	15.2	12.2	15.1	20.1
NW	2.1	15.0	13.6	2.4	.2	.0		33.4	11.6	40.4	34.1	37.8	34.3	34.8	26.4	28.1	31.3
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	4.6							4.6	.0	2.6	4.3	4.8	5.0	6.1	6.2	4.7	3.8
TOT OBS	2014	6105	3827	635	56	2	12639		9.5	2278	1156	1634	803	1704	1447	1980	1657
TOT PCT	15.9	48.3	30.3	5.0	.4	*		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	5.5	7.4	1.3	.2	*		14.4	9.2	11.8	14.7	17.1	14.2
NE	2.9	2.5	.3	*	.0		5.7	7.4	3.0	5.3	8.2	6.3
E	2.7	2.1	.1	*	.0		4.8	6.8	2.0	3.9	7.4	6.0
SE	2.5	2.1	.5	.1	*		5.1	8.4	3.4	4.7	5.8	6.6
S	2.5	2.8	.9	.2	*		6.4	9.8	6.3	4.6	6.2	7.8
SW	3.0	3.3	.5	*	.0		6.8	8.4	7.7	6.1	5.2	7.9
W	5.4	10.7	2.3	.3	*		18.8	10.3	24.4	19.3	13.9	17.4
NW	7.9	19.0	5.6	.9	*		33.4	11.6	38.3	36.6	30.1	29.5
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	4.6						4.6	.0	3.2	4.8	6.1	4.3
TOT OBS	4667	6301	1458	207	6	12639		9.5	3434	2437	3151	3617
TOT PCT	36.9	49.9	11.5	1.6	*		100.0		100.0	100.0	100.0	100.0

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PERIOD: (PRIMARY) 1944-1974
(OVER-ALL) 1888-1974

AREA 0032 SAN DIEGO
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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	3.2	8.6	46.6	36.1	4.9	.6	*	10.3	100.0	3434
06&09	4.8	8.7	45.9	33.6	6.4	.6	.0	10.2	100.0	2437
12&15	6.1	14.7	48.0	26.1	5.0	.2	*	8.8	100.0	3131
18&21	4.3	12.9	51.9	26.2	4.3	.4	.0	8.9	100.0	3617
TOT	576	1438	6105	3827	635	56	2	9.5		12639
PCT	4.6	11.4	48.3	30.3	5.0	.4	*		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	8.6	1.2	2.9	2.4		3.0
NE	3.4	.6	1.2	.8		2.9
E	2.5	.5	1.0	1.0		3.4
SE	1.4	.3	1.0	1.6		4.9
S	1.0	.4	1.4	2.5		5.8
SW	1.6	.7	1.9	2.2		5.1
W	8.0	2.2	4.9	4.3		4.0
NW	16.5	4.1	7.4	6.4		3.5
VAR	.0	.0	.0	.0		.0
CALM	2.0	.3	.9	1.0		3.7
TOT OBS	3786	873	1912	1858	8429	3.8
TOT PCT	44.9	10.4	22.7	22.0	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.4	*	.2	.3	1.1	.8	.1	.1	*	.4	11.7	
NE	.1	*	*	*	.4	.3	*	*	.0	.1	4.9	
E	.1	*	*	.1	.3	.4	.1	*	*	.2	3.7	
SE	.1	.0	.1	.3	.5	.5	.1	*	.1	.1	2.5	
S	.2	*	.1	.4	1.1	.9	.1	*	*	.1	2.4	
SW	.3	*	.1	.4	1.0	.8	.1	.0	.1	.1	3.4	
W	.5	.1	.3	.9	2.2	2.0	.3	.1	.1	.3	12.7	
NW	.7	.1	.5	1.2	3.5	2.3	.4	.1	.1	.6	24.9	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.2	.0	.1	.2	.3	.2	.1	*	*	.1	3.0	
TOT OBS	222	20	129	328	876	694	105	31	37	160	5827	8429
TOT PCT	2.6	.2	1.5	3.9	10.4	8.2	1.2	.4	.4	1.9	69.1	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM) * OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >50YD	* OR >0
* OR >6500	.9	2.1	2.3	2.3	2.3	2.3	2.3	2.3
* OR >5000	1.1	2.5	2.6	2.7	2.7	2.7	2.7	2.7
* OR >3500	1.7	3.7	3.9	3.9	4.0	4.0	4.0	4.0
* OR >2000	6.4	11.5	12.1	12.1	12.1	12.2	12.2	12.2
* OR >1000	11.9	21.2	22.3	22.5	22.5	22.6	22.6	22.6
* OR >600	13.2	24.3	26.0	26.3	26.4	26.5	26.5	26.5
* OR >300	13.5	25.3	27.3	27.7	27.9	27.9	28.0	28.0
* OR >150	13.6	25.3	27.5	27.9	28.1	28.1	28.2	28.2
* OR > 0	13.6	25.5	27.8	28.6	29.2	29.5	30.3	30.9
TOTAL	1155	2169	2365	2426	2480	2505	2573	2621

TOTAL NUMBER OF OBS: 8494 PCT FREQ NH <5/8: 69.1

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
39.9	7.9	12.2	5.6	3.9	5.2	6.9	3.8	12.8	2.0	8745

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PERIOD: (PRIMARY) 1944-1974
(OVER-ALL) 1888-1974

AREA 0032 SAN DIEGO
32.5N 118.0W

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	*	.0	.0	*	.1	*	*	*	.0	*	.2	
	NO PCP	.3	.1	.1	.1	.1	.1	.4	.5	.0	.2	1.9	
	TOT %	.3	.1	.1	.1	.2	.2	.4	.5	.0	.2	2.1	
1/2<1	PCP	*	.0	*	*	.1	*	*	*	.0	*	.2	
	NO PCP	.1	*	.1	*	.1	.1	.1	.3	.0	.1	.9	
	TOT %	.2	*	.1	.1	.1	.1	.2	.3	.0	.1	1.1	
1<2	PCP	*	.0	*	.1	.2	*	.1	*	.0	.0	.4	
	NO PCP	.2	.1	.1	.1	.1	.1	.3	.4	.0	.1	1.6	
	TOT %	.2	.1	.1	.2	.3	.2	.3	.4	.0	.1	2.0	
2<5	PCP	*	*	*	.2	.2	.2	.1	.1	.0	*	.9	
	NO PCP	.5	.2	.3	.3	.4	.4	.8	1.0	.0	.2	4.0	
	TOT %	.5	.2	.3	.5	.6	.6	.8	1.0	.0	.2	4.8	
5<10	PCP	.1	.1	.1	.1	.3	.2	.3	.3	.0	*	1.5	
	NO PCP	4.3	1.7	1.9	1.6	1.9	2.1	5.5	9.0	.0	1.2	29.1	
	TOT %	4.4	1.8	2.0	1.7	2.2	2.3	5.7	9.3	.0	1.2	30.6	
10+	PCP	*	*	*	.1	.1	.1	.1	.1	.0	*	.6	
	NO PCP	8.7	3.4	2.4	2.5	2.8	3.6	11.4	21.7	.0	2.4	58.8	
	TOT %	8.8	3.5	2.4	2.6	2.9	3.7	11.5	21.8	.0	2.4	59.4	
	TOT OBS												12216
	TOT PCT	14.3	5.7	4.9	5.2	6.4	6.9	19.0	33.3	.0	4.2	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.1	*	*	*	*	*	*	*	.0	.2	.5	
	4-10	.2	.1	.1	*	.1	.1	.2	.3	.0		1.2	
	11-21	*	*	*	*	*	.1	.1	.1	.0		.4	
	22+	.0	.0	.0	*	*	.0	.0	.0	.0		*	
	TOT %	.3	.1	.1	.1	.2	.2	.4	.5	.0	.2	2.1	
1/2<1	0-3	*	*	*	*	.0	*	*	*	.0	.1	.2	
	4-10	.1	*	*	*	.1	*	.1	.2	.0		.6	
	11-21	.0	.0	.0	*	*	*	.1	*	.0		.2	
	22+	.0	.0	.0	*	*	*	.0	*	.0		.1	
	TOT %	.2	*	.1	.1	.1	.1	.2	.3	.0	.1	1.1	
1<2	0-3	*	*	*	.1	.1	*	.1	.1	.0	.1	.5	
	4-10	.1	.1	*	.1	.1	.1	.2	.3	.0		1.0	
	11-21	*	*	*	.1	.1	.1	.1	.1	.0		.5	
	22+	.0	.0	.0	*	*	.0	*	*	.0		.1	
	TOT %	.2	.1	.1	.3	.3	.2	.3	.5	.0	.1	2.1	
2<5	0-3	.1	.1	.1	.1	.1	.1	.1	.1	.0	.3	1.2	
	4-10	.3	.2	.2	.2	.3	.3	.5	.6	.0		2.6	
	11-21	.1	*	*	.1	.1	.1	.2	.3	.0		.9	
	22+	*	.0	*	*	.1	.1	*	*	.0		.3	
	TOT %	.5	.3	.3	.5	.7	.6	.8	1.1	.0	.3	5.0	
5<10	0-3	.6	.5	.5	.3	.4	.4	.5	.7	.0	1.3	5.2	
	4-10	2.4	1.0	1.2	.9	1.0	1.3	2.7	4.1	.0		14.7	
	11-21	1.2	.3	.2	.4	.6	.5	2.0	3.6	.0		8.8	
	22+	.1	*	*	.1	.2	.1	.4	.7	.0		1.5	
	TOT %	4.4	1.8	2.0	1.7	2.2	2.2	5.6	9.2	.0	1.3	30.2	
10+	0-3	1.0	.6	.4	.6	.4	.5	.9	1.1	.0	2.5	6.2	
	4-10	4.6	2.0	1.4	1.4	1.6	2.1	5.8	9.3	.0		28.2	
	11-21	2.8	.8	.5	.5	.7	.8	4.0	9.5	.0		19.5	
	22+	.5	*	*	.1	.1	.1	.8	1.9	.0		3.5	
	TOT %	8.8	3.5	2.4	2.5	2.9	3.6	11.4	21.8	.0	2.5	59.5	
	TOT OBS												12510
	TOT PCT	14.4	5.7	4.9	5.2	6.5	6.9	18.8	33.3	.0	4.4	100.0	

PERIOD: (PRIMARY) 1964-1974
(OVER-ALL) 1888-1974

AREA 0032 SAN DIEGO
32.5N 118.0W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00&03	2.5	.2	1.0	3.8	10.4	6.9	1.3	.5	.6	2.3	29.6	70.4	2204
06&09	2.4	.2	1.0	2.9	9.4	7.1	1.5	.3	.4	1.5	26.8	73.2	2047
12&15	3.0	.1	1.8	4.5	10.2	10.1	.9	.3	.3	1.6	33.0	67.0	2038
18&21	2.3	.3	2.1	4.0	10.5	8.2	1.3	.3	.3	2.0	31.3	68.8	2400
TOT	223	20	130	331	883	699	107	32	37	160	2622	6067	8689
PCT	2.6	.2	1.5	3.8	10.2	8.0	1.2	.4	.4	1.8	30.2	69.8	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00&03	1.9	1.1	2.2	4.9	29.2	60.7	3423
06&09	2.0	.9	1.0	3.6	31.4	61.1	2436
12&15	2.7	1.3	2.6	4.9	29.7	58.8	3147
18&21	1.8	1.2	2.3	6.3	30.3	57.9	3623
TOT	264	142	265	640	3803	7515	12629
PCT	2.1	1.1	2.1	5.1	30.1	59.5	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET, NH >4/8), BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	2.6	4.3	11.7	21.0	67.3	2141
06&09	2.5	4.3	9.7	19.7	70.6	2016
12&15	3.2	5.5	13.2	22.7	64.1	2009
18&21	2.5	5.8	14.3	21.5	64.3	2328
TOT	230	423	1043	1803	5648	8494
PCT	2.7	5.0	12.3	21.2	66.5	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
80/84	*	.0	.0	.0	.0	.0	.0	.0	1	*
75/79	*	.1	.1	*	.0	*	.0	.0	14	.1
70/74	.1	.1	.1	.1	.1	.1	*	*	70	.7
65/69	.1	.2	.5	.7	1.0	.8	.4	.3	380	3.9
60/64	.1	.3	1.3	2.3	4.7	7.1	7.0	2.4	2439	25.2
55/59	*	.2	.7	2.4	6.3	15.1	18.5	10.3	5172	53.5
50/54	.0	.1	.3	1.3	3.0	2.8	4.8	3.1	1494	15.5
45/49	.0	*	*	.1	.1	.3	.2	.3	86	.9
40/44	.0	.0	.0	.0	.0	*	*	*	6	.1
35/39	.0	.0	.0	*	.0	.0	.0	.0	1	*
TOTAL	27	86	297	665	1479	2529	2993	1587	9663	100.0
PCT	.3	.9	3.1	6.9	15.3	26.2	31.0	16.4		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.0	.0	.0	.0	.0	*	.0	.0
*	.0	.0	*	*	*	*	.1	.0	*
.1	*	*	.1	*	*	.1	.2	.0	.1
.6	.3	.2	.2	.3	.4	.7	1.2	.0	.2
3.7	1.7	1.2	1.4	2.0	2.1	4.3	7.8	.0	1.0
7.5	2.7	2.2	2.6	3.5	3.9	10.3	18.7	.0	2.1
2.5	.9	.9	.8	.6	.7	3.0	5.4	.0	.7
.2	.2	.2	.1	*	*	.1	.1	.0	*
.0	*	*	*	.0	.0	.0	.0	.0	.0
.0	.0	*	.0	.0	.0	.0	.0	.0	.0
14.5	5.8	4.8	5.2	6.5	7.1	18.5	33.4	.0	4.1

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00&03	81	70	65	59	53	51	46	58.8	3433
06&09	73	65	62	57	52	50	44	57.1	2457
12&15	72	65	61	56	50	47	39	56.2	3171
18&21	78	70	65	59	53	51	45	58.9	3633
TOT	81	68	64	58	52	49	39	57.9	12694

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00&03	.3	11.9	17.5	26.4	29.6	14.4	76	2733
06&09	.1	6.9	14.5	24.9	33.3	20.3	79	1768
12&15	.1	7.5	11.5	24.8	35.1	21.0	80	2432
18&21	.6	15.3	18.7	27.6	27.4	12.3	74	2829
TOT	28	1062	1487	2546	3028	1611	77	9762

FEBRUARY

PERIOD: (PRIMARY) 1944-1974
(OVER-ALL) 1888-1974

AREA 0032 SAN DIEGO
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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	37 40	41 44	45 48	49 52	53 56	57 60	61 64	65 68	69 72	73 76	77 80	81 84	TOT	W FOG	WO FOG
20/22	.0	.0	.0	.0	.0	.0	.0	*	*	*	*	*	6	*	*
17/19	.0	.0	.0	.0	.0	.0	*	.1	*	*	*	.0	20	.0	.2
14/16	.0	.0	.0	.0	.0	*	.1	.1	.1	.1	*	.0	44	.0	.4
11/13	.0	.0	.0	.0	*	*	.1	.2	.2	*	.0	.0	71	*	.6
9/10	.0	.0	.0	.0	*	*	.2	.5	.2	*	.0	.0	110	.1	.9
7/8	.0	.0	.0	.0	*	.1	.7	1.0	.1	*	*	.0	233	.1	2.0
6	.0	.0	.0	.0	*	.2	.8	.3	*	.0	.0	.0	163	*	1.4
5	.0	.0	.0	*	.1	.5	1.5	.5	*	.0	.0	.0	306	.1	2.6
4	.0	.0	.0	*	.2	1.1	1.9	.2	*	.0	.0	.0	392	.2	3.2
3	.0	.0	.0	.0	.3	2.0	2.1	.2	*	.0	.0	.0	512	.2	4.3
2	.0	.0	.0	*	.5	3.9	2.3	.1	*	.0	.0	.0	777	.4	6.4
1	.0	.0	.0	.0	.8	5.4	2.2	.1	*	.0	.0	.0	979	.6	7.9
0	.0	.0	.0	.1	2.5	8.1	1.6	*	*	.0	.0	.0	1415	.7	11.7
-1	.0	.0	.0	.1	3.6	7.7	1.0	*	.0	.0	.0	.0	1414	.8	11.6
-2	.0	.0	*	.3	5.4	6.5	.5	*	*	.0	.0	.0	1455	.7	12.0
-3	.0	.0	*	.5	4.8	4.8	.3	*	.0	.0	.0	.0	1201	.6	9.8
-4	.0	.0	*	1.1	5.0	1.8	.1	.0	.0	.0	.0	.0	918	.7	7.3
-5	.0	.0	*	.7	3.3	1.3	.1	*	.0	.0	.0	.0	613	.5	4.8
-6	.0	.0	*	1.0	1.8	.4	*	.0	.0	.0	.0	.0	369	.3	2.9
-7/-8	.0	.0	.1	.9	1.3	.3	.1	*	.0	.0	.0	.0	311	.3	2.4
-9/-10	.0	.0	.1	.6	.2	.1	*	.0	.0	.0	.0	.0	118	.1	.9
-11/-13	.0	*	*	.1	.1	*	.0	.0	.0	.0	.0	.0	29	*	.2
-14/-16	*	.0	*	*	*	*	*	.0	.0	.0	.0	.0	8	.0	.1
-17/-19	.0	.0	*	*	.0	.0	.0	.0	.0	.0	.0	.0	2	.0	*
TOTAL	1	1	45	614	3440	5076	1769	398	93	23	5	1	11466	747	10719
PCT	*	*	.4	5.4	30.0	44.3	15.4	3.5	.8	.2	*	*	100.0	6.5	93.5

PERIOD: (OVER-ALL) 1963-1974

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.6	2.2	.1	.0	.0	.0	3.0
1-2	.6	5.3	2.1	.0	.0	.0	7.9
3-4	*	.8	1.4	.2	.0	.0	2.3
5-6	.0	.1	.4	.2	*	.0	.8
7	.0	*	.2	.2	.0	.0	.5
8-9	.0	*	.1	.1	*	.0	.3
10-11	.0	.0	*	.2	*	.0	.2
12	.0	.0	*	*	*	.0	.1
13-16	.0	.0	*	.1	.0	.0	.1
17-19	.0	.0	.0	*	*	.0	.1
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.2	8.4	4.4	1.0	.1	.0	15.1

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.6	1.2	*	.0	.0	.0	1.9
1-2	.3	2.7	1.0	.0	.0	.0	4.0
3-4	*	.1	.5	*	.0	.0	.7
5-6	.0	.1	.2	*	.0	.0	.3
7	.0	.0	.1	.0	.0	.0	.1
8-9	.0	.0	*	.0	.0	.0	*
10-11	.0	.0	*	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	*	.0	.0	.0	*
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.0	4.1	1.8	*	.0	.0	7.0

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	.9	*	.0	.0	.0	1.1
1-2	.2	1.7	.6	.0	.0	.0	2.5
3-4	*	*	.2	.0	.0	.0	.3
5-6	.0	.0	.1	*	.0	.0	.1
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.4	2.6	1.0	*	.0	.0	4.1

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	1.0	*	.0	.0	.0	1.3
1-2	.4	1.2	.5	.0	.0	.0	2.1
3-4	.0	.1	.3	*	.0	.0	.5
5-6	.0	.0	.1	.0	.0	.0	.1
7	.0	*	.1	.0	.0	.0	.1
8-9	.0	.0	.0	*	.0	.0	*
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.7	2.3	1.0	*	.0	.0	4.1

PERIOD: (OVER-ALL) 1963-1974 FEBRUARY AREA 0032 SAN DIEGO

TABLE 18 (CONT) 32.5N 118.0W

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

	S							SW						
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.4	1.2	.1	.0	.0	.0	1.6	.3	1.4	*	.0	.0	.0	1.7
1-2	.3	1.5	.7	.0	.0	.0	2.5	.4	2.3	.7	.0	.0	.0	3.4
3-4	.0	.2	.6	.2	.0	.0	1.0	.0	.4	.6	*	.0	.0	1.1
5-6	.0	.0	.1	.4	.0	.0	.5	*	.0	.1	.1	.0	.0	.2
7	.0	*	.1	.1	.0	.0	.2	.0	*	.1	*	.0	.0	.2
8-9	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	*	.0	*	.0	.0	*	.0	.0	.0	*
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.7	2.9	1.5	.8	*	.0	5.9	.7	4.2	1.6	.2	.0	.0	6.6

	W							NW							TOTAL
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	PCT
<1	.6	2.2	.1	.0	.0	.0	2.9	.5	3.1	.2	.0	.0	.0	3.8	
1-2	.4	6.2	2.7	.0	.0	.0	9.2	.9	9.3	5.4	.0	.0	.0	15.6	
3-4	.1	1.7	2.5	.4	.0	.0	4.6	.1	2.3	4.9	.4	.0	.0	7.8	
5-6	.0	.2	.7	.2	.0	.0	1.1	.0	.5	2.1	.6	*	.0	3.1	
7	.0	.1	.2	.3	.0	.0	.6	.0	.1	1.1	.5	.0	.0	1.7	
8-9	.0	.0	.1	*	.0	.0	.1	.0	*	.4	.5	.1	.0	1.0	
10-11	.0	.0	.1	*	.0	.0	.1	.0	.0	.2	.3	.1	.0	.6	
12	.0	.0	.0	*	.0	.0	*	.0	.0	*	.2	*	.0	.2	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	.1	.0	.1	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	.0	.0	*	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	1.1	10.3	6.4	.9	.0	.0	18.7	1.5	15.3	14.3	2.6	.3	.0	34.0	95.5

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	7.6	13.2	.6	.0	.0	.0	21.3	
1-2	3.9	30.0	13.7	.0	.0	.0	47.6	
3-4	.2	5.7	10.9	1.3	.0	.0	18.2	
5-6	.1	.9	3.7	1.5	*	.0	6.2	
7	.0	.3	1.9	1.2	.0	.0	3.4	
8-9	.0	*	.6	.7	.1	.0	1.5	
10-11	.0	.0	.4	.5	.1	.0	1.0	
12	.0	.0	.1	.2	.1	.0	.4	
13-16	.0	.0	.1	.1	.1	.0	.3	
17-19	.0	*	*	.1	*	.0	.2	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	11.8	50.2	31.9	5.7	.5	.0	100.0	2813

PERIOD: (OVER-ALL) 1949-1974 TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	3.5	22.9	17.0	5.1	1.9	.4	.2	.1	*	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	3417	3
6-7	*	3.4	7.6	3.9	2.3	1.2	.5	.1	.3	.1	*	.0	.0	.0	.0	.0	.0	.0	.0	1299	4
8-9	*	1.2	3.0	1.7	2.0	.9	.5	.1	.2	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	652	5
10-11	.0	.9	1.1	.7	.6	.6	.3	.2	.1	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	295	5
12-13	.0	.0	.5	.1	.1	.2	*	.1	.1	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	76	6
>13	.0	.0	.0	.1	.1	*	.1	*	.0	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	22	9
INDET	10.5	2.4	.7	.2	.1	.1	*	.0	*	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	939	1
TOTAL	940	2060	1999	790	470	220	114	41	49	12	5	0	0	0	0	0	0	0	0	6700	3
PCT	14.0	30.7	29.8	11.8	7.0	3.3	1.7	.6	.7	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

MARCH

PERIOD: (PRIMARY) 1944-1974
(OVER-ALL) 1889-1974

AREA 0032 SAN DIEGO
32.6N 118.0W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG	DUST BLWG SNOW	NO SIG WEA
N	.3	.2	.3	.0	.0	.0	.0	.7	.2	.1	4.6	*	6.3		.1	87.9
NE	1.8	.2	.0	.0	.0	.0	.0	2.0	.1	.2	6.7	.1	7.1		.0	83.8
E	.9	.6	.6	.0	.0	.0	.0	2.1	1.0	.3	7.9	.2	6.4		.0	82.0
SE	2.9	.7	1.0	.0	.0	.0	.0	4.6	1.4	.2	7.0	.2	5.4		.0	81.3
S	6.7	2.3	1.0	.0	.0	.0	.0	9.9	1.2	.0	6.3	.2	5.4		.0	77.0
SW	2.3	1.1	1.0	.0	.0	.0	.0	4.0	1.0	.2	4.4	*	6.8		.0	83.6
W	.6	.6	.5	.0	.0	.0	.0	1.6	.7	*	3.1	.1	4.2		*	90.3
NW	.3	.3	.2	.0	.0	.0	.0	.7	.3	*	2.8	.1	4.1		*	92.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	.0
CALM	.2	.2	.2	.0	.0	.0	.0	.7	.0	.2	11.9	.5	11.7		.0	75.0
TOT PCT	1.1	.5	.4	.0	.0	.0	.0	2.0	.6	.1	4.2	.1	5.1		*	88.0
TOT OBS:	14293															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG	DUST BLWG SNOW	NO SIG WEA
00&03	1.2	.6	.4	.0	.0	.0	.0	2.1	.4	.0	3.0	.1	5.1		.1	89.3
06&09	1.0	.3	.5	.0	.0	.0	.0	1.7	.7	.2	4.0	.1	3.5		.0	89.9
12&15	1.4	.6	.7	.0	.0	.0	.0	2.5	.4	.1	4.9	.1	4.7		.0	87.3
18&21	.9	.6	.2	.0	.0	.0	.0	1.7	.7	*	4.8	.2	6.8		*	85.8
TOT PCT	1.1	.6	.4	.0	.0	.0	.0	2.0	.6	.1	4.2	.1	5.2		*	87.9
TOT OBS:	14394															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	1.3	5.5	3.0	.3	*	.0		10.0	9.2	6.4	8.7	11.5	9.9	12.1	13.8	11.7	7.2
NE	1.0	2.1	.6	*	*	.0		3.7	6.6	.9	3.2	2.6	2.8	4.8	8.7	4.8	2.6
E	.9	2.1	.4	*	.0	.0		3.4	6.3	.9	1.6	2.2	3.4	4.6	7.8	5.2	2.4
SE	1.0	2.7	.8	.1	.0	.0		4.6	7.2	2.6	3.5	3.4	5.4	4.6	8.6	6.0	3.6
S	1.1	3.5	1.3	.2	*	.0		6.0	8.1	6.1	6.0	4.9	5.7	4.2	6.3	6.9	7.5
SW	1.4	4.7	1.7	.2	*	.0		8.0	7.9	8.9	8.5	5.9	7.2	5.9	7.0	7.3	12.4
W	1.9	11.0	9.0	1.6	.1	.0		23.6	11.0	30.8	27.5	22.6	22.8	19.3	15.2	19.6	28.7
NW	2.1	14.0	17.2	3.7	.2	.0		37.3	12.7	41.9	38.5	44.3	38.5	40.2	27.4	33.8	32.8
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	3.3							3.3	.0	1.5	2.4	2.7	4.4	4.1	5.2	4.6	2.8
TOT OBS	2070	6760	5037	901	39	0	14807		10.2	2691	1362	1869	979	1956	1737	2229	1984
TOT PCT	14.0	45.7	34.0	6.1	.3	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	3.8	5.2	1.0	.1	.0		10.0	9.2	7.2	11.0	12.9	9.6
NE	2.2	1.4	.1	*	.0		3.7	6.6	1.7	2.7	6.7	3.8
E	2.1	1.2	.1	.0	.0		3.4	6.3	1.1	2.7	6.1	3.9
SE	2.4	1.9	.2	*	.0		4.6	7.2	2.9	4.1	6.5	4.8
S	2.8	2.7	.4	.1	.0		6.0	8.1	6.1	5.2	5.2	7.2
SW	3.8	3.7	.5	*	.0		8.0	7.9	8.8	6.3	6.4	9.7
W	6.4	12.9	4.0	.4	.0		23.6	11.0	29.7	22.6	17.4	23.9
NW	6.9	20.8	8.5	1.1	*		37.3	12.7	40.7	42.3	34.2	33.3
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	3.3						3.3	.0	1.8	3.3	4.6	3.5
TOT OBS	5006	7359	2189	251	2	14807		10.2	4053	2848	3093	4213
TOT PCT	33.8	49.7	14.8	1.7	*		100.0		100.0	100.0	100.0	100.0

MARCH

PERIOD: (PRIMARY) 1944-1974
(OVER-ALL) 1889-1974

AREA 0032 SAN DIEGO
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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GHT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	1.8	8.1	41.7	40.0	7.9	.4	.0	11.3	100.0	4053
06&09	3.3	8.0	43.8	37.0	7.8	.2	.0	10.9	100.0	2848
12&15	4.6	14.8	46.5	29.0	4.9	.2	.0	9.1	100.0	3693
18&21	3.8	11.2	49.9	30.7	4.2	.2	.0	9.4	100.0	4213
TOT	496	1574	6760	5037	901	39	0	10.2		14807
PCT	3.3	10.6	45.7	34.0	6.1	.3	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	5.8	1.1	1.9	1.9		3.1
NE	1.8	.2	.6	.7		3.3
E	1.5	.5	.7	.8		3.8
SE	1.4	.4	.9	1.4		4.6
S	1.3	.6	1.4	2.2		5.3
SW	2.1	.8	2.0	2.1		4.8
W	9.1	2.8	6.7	4.6		4.1
NW	17.8	5.1	9.5	7.1		3.7
VAR	.0	.0	.0	.0		.0
CALM	1.4	.3	.7	.9		4.2
TOT OBS	3952	1104	2279	2044	9379	3.9
TOT PCT	42.1	11.8	24.3	21.8	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.2	.0	.1	.2	1.0	.8	.1	.1	*	.2	8.2	
NE	.1	.0	*	*	.3	.3	.1	*	*	.1	2.4	
E	.1	.0	.0	.1	.3	.4	*	*	*	*	2.5	
SE	.1	*	.1	.1	.5	.6	.1	*	*	.1	*	2.5
S	.1	.0	.1	.3	.9	.7	.3	*	*	.1	.1	2.9
SW	.1	.0	.1	.3	1.2	1.0	.1	*	*	*	.1	4.0
W	.3	*	.2	.7	3.3	2.8	.3	.1	.1	.2	15.1	
NW	.5	.1	.4	1.3	4.7	3.8	.5	.2	.2	.4	27.6	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.2	.0	.1	.1	.4	.3	*	*	*	.1	2.0	
TOT OBS	153	9	99	287	1185	998	148	49	53	104	6294	9379
TOT PCT	1.6	.1	1.1	3.1	12.6	10.6	1.6	.5	.6	1.1	67.1	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM) * OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >50YD	* OR >0
* OR >6500	.9	1.6	1.7	1.7	1.7	1.7	1.7	1.7
* OR >5000	1.2	2.1	2.2	2.2	2.2	2.2	2.2	2.4
* OR >3500	2.2	3.6	3.7	3.7	3.8	3.8	3.8	3.8
* OR >2000	9.4	14.2	14.4	14.4	14.4	14.5	14.5	14.5
* OR >1000	16.7	25.9	27.0	27.1	27.1	27.1	27.1	27.1
* OR >600	18.1	28.5	30.0	30.1	30.1	30.2	30.2	30.2
* OR >300	18.5	29.3	30.9	31.1	31.2	31.2	31.2	31.2
* OR >150	18.5	29.4	31.0	31.2	31.3	31.3	31.3	31.3
* OR > 0	18.6	29.6	31.3	31.8	32.2	32.4	32.7	33.0
TOTAL	1754	2787	2955	2998	3036	3054	3088	3108

TOTAL NUMBER OF OBS: 9431

PCT FREQ NH <5/8: 67.0

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
31.8	9.2	14.4	6.7	4.9	5.0	7.9	5.2	13.4	1.4	9878

MARCH

PERIOD: (PRIMARY) 1944-1974
(OVER-ALL) 1889-1974

TABLE 8

AREA 0032 SAN DIEGO
32.6N 118.0W

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	*	.0	.0	*	*	*	*	.0	.0	.0	*	
	NO PCP	.1	.1	.1	.1	.1	.1	.2	.2	.0	.1	1.0	
	TOT %	.1	.1	.1	.1	.1	.1	.2	.2	.0	.1	1.0	
1/2<1	PCP	.0	.0	.0	.0	*	*	*	*	.0	.0	.1	
	NO PCP	.1	*	*	.1	*	.1	.1	.1	.0	.1	.7	
	TOT %	.1	*	*	.1	.1	.1	.1	.2	.0	.1	.7	
1<2	PCP	.0	.0	*	*	.1	*	*	*	.0	.0	.1	
	NO PCP	.1	*	*	.1	.1	.1	.2	.3	.0	.1	1.0	
	TOT %	.1	*	.1	.1	.2	.2	.2	.3	.0	.1	1.2	
2<5	PCP	*	*	*	*	.2	.1	.1	.1	.0	*	.5	
	NO PCP	.4	.2	.2	.2	.2	.3	.7	.9	.0	.2	3.2	
	TOT %	.4	.2	.2	.2	.4	.4	.8	.9	.0	.2	3.7	
5<10	PCP	*	*	*	.1	.2	.1	.2	.1	.0	*	.8	
	NO PCP	3.0	1.2	1.2	1.3	1.8	2.5	6.6	9.3	.0	1.1	28.0	
	TOT %	3.0	1.3	1.2	1.4	2.1	2.7	6.8	9.4	.0	1.1	28.8	
10+	PCP	*	*	*	*	.1	.1	.1	.1	.0	*	.4	
	NO PCP	6.4	2.1	1.9	2.5	3.1	4.4	15.6	26.5	.0	1.5	64.1	
	TOT %	6.4	2.1	1.9	2.6	3.2	4.5	15.7	26.6	.0	1.5	64.6	
	TOT OBS												14286
	TOT PCT	10.1	3.8	3.5	4.4	6.0	7.9	23.7	37.5	.0	3.1	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	*	*	*	*	*	*	*	*	.0	.1	.4	
	4-10	.1	.1	.1	*	.1	.1	.1	.1	.0		.6	
	11-21	*	.0	.0	*	*	*	*	.1	.0		.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.1	.1	.1	.1	.1	.1	.2	.2	.0	.1	1.1	
1/2<1	0-3	*	*	*	*	*	*	*	*	.0	.1	.2	
	4-10	.1	*	*	*	*	*	.1	.1	.0		.4	
	11-21	*	*	.0	*	*	*	*	*	.0		.1	
	22+	.0	.0	.0	.0	*	*	.0	.0	.0		*	
	TOT %	.1	*	*	.1	.1	.1	.1	.2	.0	.1	.8	
1<2	0-3	.1	*	*	*	*	*	*	.1	.0	.1	.4	
	4-10	.1	*	*	*	.1	.1	.1	.1	.0		.7	
	11-21	*	.0	*	*	*	.1	*	.1	.0		.3	
	22+	.0	.0	*	.0	*	*	*	*	.0		.1	
	TOT %	.1	.1	.1	.1	.2	.2	.2	.3	.0	.1	1.4	
2<5	0-3	.1	.1	.1	.1	.1	.1	.2	.1	.0	.2	1.1	
	4-10	.2	.1	.1	.1	.2	.2	.5	.6	.0		1.9	
	11-21	*	*	*	*	.1	.1	.1	.3	.0		.7	
	22+	.0	.0	*	*	*	*	*	*	.0		.1	
	TOT %	.4	.2	.2	.3	.4	.4	.8	1.0	.0	.2	3.9	
5<10	0-3	.5	.3	.4	.3	.4	.5	.6	.6	.0	1.1	4.5	
	4-10	1.6	.7	.7	.9	1.2	1.6	3.3	3.9	.0		13.8	
	11-21	.8	.2	.1	.2	.4	.5	2.5	3.9	.0		8.7	
	22+	*	*	.0	*	.1	.1	.4	.8	.0		1.4	
	TOT %	2.9	1.2	1.2	1.4	2.0	2.6	6.7	9.2	.0	1.1	28.4	
10+	0-3	.6	.5	.4	.5	.6	.7	1.0	1.3	.0	1.6	7.1	
	4-10	3.5	1.2	1.3	1.6	1.9	2.7	7.0	9.2	.0		28.3	
	11-21	2.2	.4	.2	.5	.7	1.1	6.4	13.0	.0		24.4	
	22+	.3	*	*	*	*	.1	1.3	3.0	.0		4.7	
	TOT %	6.4	2.1	1.9	2.6	3.2	4.6	15.7	26.4	.0	1.6	64.5	
	TOT OBS												14642
	TOT PCT	10.0	3.7	3.5	4.5	6.0	8.0	23.7	37.3	.0	3.3	100.0	

PERIOD: (PRIMARY) 1944-1974
(OVER-ALL) 1889-1974

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET,NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00&03	1.0	.1	.7	2.7	10.4	9.1	1.8	.4	.6	1.1	27.9	72.1	2536
06&09	1.2	*	.9	2.6	10.7	9.2	1.4	.4	.7	1.1	28.2	71.8	2271
12&15	2.3	.2	1.1	3.1	14.6	12.2	1.2	.7	.6	.7	36.8	63.2	2281
18&21	1.8	.1	1.3	3.4	13.4	11.0	1.7	.6	.4	1.2	34.9	65.1	2651
TOT	155	10	99	289	1194	1010	190	49	53	104	3113	6626	9739
PCT	1.6	.1	1.0	3.0	12.3	10.4	1.5	.5	.5	1.1	32.0	68.0	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00&03	.7	.7	1.1	3.7	28.8	64.9	4028
06&09	1.0	.4	.5	2.4	27.6	68.1	2835
12&15	1.5	1.0	2.1	4.3	28.7	62.4	3673
18&21	1.2	.9	1.7	4.7	28.0	63.6	4207
TOT	162	112	207	572	4179	9511	14743
PCT	1.1	.8	1.4	3.9	28.3	64.5	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET,NH >4/8),BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <3	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	1.1	2.2	7.0	23.4	69.5	2430
06&09	1.3	2.3	6.4	23.3	70.3	2219
12&15	2.4	4.0	9.3	29.5	61.2	2222
18&21	1.9	3.9	10.7	27.5	61.8	2560
TOT	156	293	795	2446	6190	9431
PCT	1.7	3.1	8.4	25.9	65.6	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
80/84	*	.0	.0	.0	*	.0	.0	.0	4	*
75/79	*	*	*	.1	.1	*	*	*	25	.2
70/74	.1	.1	.1	.2	.2	.1	.1	.1	108	.9
65/69	*	.1	.4	.8	1.3	1.2	.6	.4	573	4.9
60/64	*	.2	.5	1.6	4.9	7.8	5.6	2.0	2609	22.5
55/59	.0	.1	.6	1.8	7.6	18.2	22.2	7.4	6705	57.8
50/54	.0	.1	.2	.7	2.1	2.7	4.8	2.3	1495	12.9
45/49	.0	.0	*	*	.1	.1	.1	.2	69	.6
40/44	.0	.0	.0	.0	*	.0	*	.1	9	.1
TOTAL	21	63	210	605	1895	3492	3871	1440	11597	100.0
PCT	.2	.5	1.8	5.2	16.3	30.1	33.4	12.4		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
*	.0	.0	.0	.0	*	.0	*	.0	.0
*	*	*	*	*	*	*	.1	.0	.0
.1	*	*	.1	*	.1	.2	.3	.0	*
.6	.2	.2	.3	.3	.4	.9	1.8	.0	.1
2.4	.9	.6	1.0	1.8	2.2	5.2	7.6	.0	.9
5.7	2.0	1.8	2.5	3.2	4.8	14.1	22.2	.0	1.6
1.3	.6	.6	.6	.5	.6	2.8	5.4	.0	.4
*	.1	.1	.1	*	*	.1	.1	.0	.1
.0	*	*	.0	*	*	*	*	.0	.0
10.1	3.8	3.4	4.5	5.9	8.2	23.3	37.7	.0	3.1

TABLE 15

MEANS,EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00&03	78	70	66	58	54	52	40	59.1	4061
06&09	79	65	62	57	53	50	46	56.9	2863
12&15	78	65	62	56	51	48	40	56.4	3720
18&21	82	71	67	59	54	51	40	59.2	4215
TOT	82	69	65	58	53	50	40	58.0	14859

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00&03	.2	9.0	18.4	31.3	30.0	11.2	76	3310
06&09	*	3.1	11.9	30.9	40.4	13.7	80	2109
12&15	*	5.3	11.1	26.9	39.5	17.1	80	2920
18&21	.4	10.9	21.6	31.3	26.8	8.9	74	3346
TOT	22	882	1907	3519	3898	1457	77	11685

PERIOD: (PRIMARY) 1944-1976
(OVER-ALL) 1889-1976

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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	45 48	49 52	53 56	57 60	61 64	65 68	69 72	73 76	77 80	81 84	TOT	W FOG	WO FOG
20/22	.0	.0	.0	.0	.0	.0	*	.0	.0	.0	3	.0	*
17/19	.0	.0	.0	.0	*	*	*	*	*	*	15	.0	.1
14/16	.0	.0	.0	*	*	.1	.1	.1	*	*	36	*	.2
11/13	.0	.0	.0	*	.2	.2	.3	.1	*	.0	109	*	.8
9/10	.0	.0	*	*	.2	.5	.2	*	.0	.0	131	*	1.0
7/8	.0	.0	*	.2	.7	1.1	.2	*	.0	.0	296	*	2.2
6	.0	.0	*	.4	.9	.5	.1	*	.0	.0	254	*	1.9
5	.0	.0	.1	.5	1.0	.7	*	*	.0	.0	327	.1	2.4
4	.0	*	.1	1.2	1.7	.4	*	.0	.0	.0	451	.1	3.3
3	.0	*	.4	1.7	2.0	.3	*	.0	.0	.0	596	.1	4.4
2	.0	*	.8	3.5	2.2	.2	*	.0	.0	.0	885	.3	6.4
1	.0	*	1.1	4.6	2..	.1	*	.0	.0	.0	1058	.3	7.7
0	.0	.1	2.9	7.8	1.5	.1	.0	.0	.0	.0	1044	.5	11.8
-1	.0	.1	3.0	7.4	.8	*	.0	*	.0	.0	1317	.5	10.8
-2	*	.2	5.9	6.2	.5	*	.0	.0	.0	.0	1710	.5	12.3
-3	.0	.1	5.7	5.1	.2	*	.0	.0	.0	.0	1478	.5	10.6
-4	*	.5	5.0	2.6	.2	.0	.0	.0	.0	.0	1116	.3	8.1
-5	.0	.4	3.6	1.6	*	*	.0	.0	.0	.0	737	.3	5.2
-6	.0	.5	2.2	.4	*	.0	.0	.0	.0	.0	416	.2	2.9
-7/-8	*	.7	1.8	.4	*	.0	.0	.0	.0	.0	391	.2	2.7
-9/-10	*	.3	.3	.1	*	.0	.0	.0	.0	.0	97	*	.7
-11/-13	*	.1	.1	*	.0	.0	.0	.0	.0	.0	32	*	.2
-14/-16	.0	*	*	.0	*	.0	.0	.0	.0	.0	7	*	*
-17/-19	.0	*	*	.0	.0	.0	.0	.0	.0	.0	6	*	*
TOTAL	12	425	4406	5826	.888	564	144	37	6	2	13310	558	12752
PCT	.1	3.2	33.1	43.8	14.2	4.2	1.1	.3	*	*	100.0	4.2	95.8

PERIOD: (OVER-ALL) 1963-1974

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.4	1.5	*	.0	.0	.0	1.9
1-2	.3	3.1	1.7	.0	.0	.0	5.1
3-4	*	.9	1.1	.1	.0	.0	2.1
5-6	.0	.1	.4	*	.0	.0	.6
7	.0	.1	.1	*	*	.0	.3
8-9	.0	.0	.1	.0	.0	.0	.1
10-11	.0	.0	.1	*	.0	.0	.1
12	.0	.0	*	.1	.0	.0	.1
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.8	5.7	3.6	.3	*	.0	10.3

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	.5	.0	.0	.0	.0	.6
1-2	.2	1.2	.3	.0	.0	.0	1.8
3-4	.0	.2	.2	.0	.0	.0	.4
5-6	.0	.0	.1	.0	.0	.0	.1
7	.0	.0	*	*	.0	.0	*
8-9	.0	*	.0	.0	.0	.0	*
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.4	1.9	.6	*	.0	.0	3.0

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	.8	.0	.0	.0	.0	1.1
1-2	.2	1.3	.3	.0	.0	.0	1.8
3-4	.0	.1	.1	.0	.0	.0	.2
5-6	.0	*	*	.0	.0	.0	.1
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.5	2.3	.4	.0	.0	.0	3.2

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	.8	*	.0	.0	.0	1.1
1-2	.4	1.7	.4	.0	.0	.0	2.5
3-4	*	.2	*	.1	.0	.0	.3
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.6	2.7	.5	.1	.0	.0	3.9

PERIOD: (OVER-ALL) 1963-1974

MARCH

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TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

S

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	1.0	.1	.0	.0	.0	1.4
1-2	.3	1.6	.8	.0	.0	.0	2.7
3-4	*	.2	.1	.1	.0	.0	.5
5-6	.0	.0	*	.0	.0	.0	*
7	.0	.0	.0	*	.0	.0	*
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.6	2.8	1.0	.2	.0	.0	4.6

SW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.5	1.5	.1	.0	.0	.0	2.1
1-2	.3	3.0	1.1	.0	.0	.0	4.3
3-4	.1	.5	.4	.1	.0	.0	1.0
5-6	.0	.1	.2	*	.0	.0	.3
7	.0	.0	.2	.1	.0	.0	.2
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.8	5.0	1.9	.1	.0	.0	7.8

W

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.6	2.1	*	.0	.0	.0	2.8
1-2	.4	5.9	3.6	.0	.0	.0	9.9
3-4	.1	1.8	4.2	.5	.0	.0	6.6
5-6	.0	.3	1.1	.5	.0	.0	1.8
7	.0	.0	.5	.4	.0	.0	.9
8-9	.0	.0	.2	.2	.0	.0	.4
10-11	.0	.0	.1	*	*	.0	.1
12	.0	.0	.0	*	.0	.0	*
13-16	.0	.0	.0	.1	.0	.0	.1
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.1	10.1	9.7	1.7	*	.0	22.6

NW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.5	2.5	*	.0	.0	.0	3.1	
1-2	.6	9.1	6.7	.0	.0	.0	16.5	
3-4	.1	3.5	7.2	1.4	.0	.0	12.2	
5-6	*	.5	3.0	1.0	.0	.0	4.4	
7	.0	.2	1.6	1.0	.1	.0	2.9	
8-9	.0	.1	.9	.7	.0	.0	1.7	
10-11	.0	.0	.1	.5	.1	.0	.7	
12	.0	.0	*	.2	.1	.0	.3	
13-16	.0	.0	.0	.1	.1	.0	.2	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	1.3	15.9	19.6	4.9	.3	.0	42.0	97.3

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	5.6	10.8	.3	.0	.0	.0	16.7	
1-2	2.9	26.8	14.9	.0	.0	.0	44.6	
3-4	.4	7.3	13.4	2.2	.0	.0	23.3	
5-6	*	1.0	4.8	1.5	.0	.0	7.3	
7	.0	.3	2.4	1.6	.1	.0	4.3	
8-9	.0	.1	1.2	.9	.0	.0	2.2	
10-11	.0	.0	.3	.5	.2	.0	1.0	
12	.0	.0	.1	.3	.1	.0	.5	
13-16	.0	.0	.0	.2	.1	.0	.2	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	8.8	46.3	37.2	7.2	.4	.0	100.0	3252

PERIOD: (OVER-ALL) 1949-1974

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	2.4	22.5	19.3	5.0	2.5	.8	.4	*	*	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	3898	3
6-7	.1	4.0	8.5	4.0	3.0	1.3	.5	.1	.1	*	*	.0	.0	.0	.0	.0	.0	.0	.0	1593	4
8-9	*	1.2	2.0	1.6	1.8	1.5	.5	.3	.2	.1	*	.0	.0	.0	.0	.0	.0	.0	.0	686	6
10-11	.0	.5	.4	.6	.4	.3	.1	.2	.1	*	.0	.0	.0	.0	.0	.0	.0	*	.0	199	6
12-13	.0	.0	.3	.1	.1	.1	.1	*	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	72	6
>13	.0	.0	.0	.1	.1	*	.1	*	.0	*	*	*	.0	.0	.0	.0	.0	.0	.0	20	9
INDET	8.4	2.1	1.0	.4	.1	*	*	*	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	883	1
TOTAL	796	2231	2324	871	591	305	126	54	34	12	5	1	0	0	0	0	1	0	0	7991	3
PCT	10.8	30.3	31.6	11.8	8.0	4.1	1.7	.7	.5	.2	.1	*	.0	.0	.0	.0	*	.0	.0	100.0	

APRIL

PERIOD: (PRIMARY) 1965-1974
(OVER-ALL) 1895-1974

AREA 0032 SAN DIEGO
32.6N 118.0W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG NO PCPN	FOG NO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	.6	.1	.4	.0	.0	.0	.0	1.0	.2	.0	6.4	.1	9.8		.0	82.4
NE	.6	.0	1.0	.0	.0	.0	.0	1.6	.3	.0	7.1	.0	11.7		.0	79.3
E	.8	1.0	1.2	.0	.0	.0	.0	2.4	.3	.0	9.1	.0	9.9		.3	78.0
SE	2.1	.9	2.3	.0	.0	.0	.0	3.9	1.6	.0	7.9	.0	9.1		.0	77.8
S	2.7	1.8	1.9	.0	.0	.0	.0	6.1	.6	.2	6.4	.1	10.5		.0	76.2
SW	1.3	1.1	1.0	.0	.0	.0	.0	3.4	.6	.0	4.9	.1	8.4		.1	82.5
W	.5	.6	.5	.0	.0	.0	*	1.6	.6	*	3.8	*	8.1		.1	85.8
NW	.2	.3	.5	.0	.0	.0	.0	1.1	.2	*	3.3	.1	7.0		*	88.4
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	.0
CALM	.2	.0	1.0	.0	.0	.0	.0	1.2	.0	.0	13.3	.2	16.1		.0	69.2
TOT PCT	.7	.6	.8	.0	.0	.0	*	1.9	.4	*	4.7	.1	8.4		*	84.5
TOT OBS: 13881																

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG NO PCPN	FOG NO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00&03	.8	.7	.5	.0	.0	.0	.0	1.8	.3	.0	3.2	.0	8.4		.0	86.3
06&09	.4	.3	.9	.0	.0	.0	.0	1.5	.6	.1	4.4	.0	9.7		.1	87.6
12&15	1.1	.4	1.3	.0	.0	.0	.0	2.6	.5	*	5.9	*	7.3		.1	83.6
18&21	.5	.8	.4	.0	.0	.0	*	1.6	.4	.0	5.3	.2	10.8		*	81.6
TOT PCT	.7	.6	.8	.0	.0	.0	*	1.9	.4	*	4.7	.1	8.4		*	84.4
TOT OBS: 13906																

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	1.0	3.7	2.5	.3	*	.0		7.5	9.7	4.7	5.8	8.6	6.2	9.5	10.9	8.8	4.9
NE	.6	1.2	.2	*	.0	.0		2.1	6.2	.5	2.1	1.6	1.3	2.6	3.5	2.5	1.4
E	.7	1.3	.2	*	*	.0		2.2	5.7	.7	.8	1.5	2.3	2.8	3.5	3.1	1.0
SE	.8	2.3	.7	*	.0	.0		3.9	7.4	1.8	3.0	3.1	4.1	4.1	6.9	5.4	2.9
S	1.1	4.0	1.3	.1	.0	.0		6.6	7.9	5.4	6.3	5.8	6.2	5.6	7.6	8.2	7.4
SW	1.3	5.8	2.0	.1	.0	.0		9.2	7.8	10.2	10.8	6.9	9.1	5.8	8.2	8.8	14.0
W	2.2	13.3	10.6	1.6	.1	.0		27.8	10.8	34.3	34.1	25.9	29.9	22.6	18.2	23.9	34.7
NW	1.7	14.4	17.9	3.3	.2	.0		37.5	12.5	41.3	39.1	44.2	36.7	42.3	31.6	34.9	32.1
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	3.2							3.2	.0	1.1	2.1	2.6	4.4	4.8	5.7	4.3	1.6
TOT OBS	1802	6820	5106	798	34	0	14360		10.2	2925	1222	1782	897	1981	1696	2368	1989
TOT PCT	12.9	48.1	35.6	5.6	.2	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	2.6	3.9	.9	*	.0		7.5	9.7	5.1	7.8	10.1	7.0
NE	1.4	.7	.1	*	.0		2.1	6.1	1.0	1.5	3.9	2.0
E	1.6	.3	.1	*	.0		2.2	5.7	.7	1.8	4.0	2.2
SE	2.0	1.6	.2	*	.0		3.9	7.4	2.2	3.4	5.4	4.3
S	3.1	3.0	.4	*	.0		6.6	7.9	3.7	5.9	6.3	7.8
SW	4.3	4.5	.4	*	.0		9.2	7.8	10.4	7.6	6.9	11.2
W	7.3	15.9	4.2	.4	*		27.8	10.8	34.2	27.1	20.6	28.8
NW	6.7	21.9	8.1	.9	*		37.5	12.5	39.3	41.8	37.3	33.6
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	3.2						3.2	.0	1.9	3.1	3.2	2.1
TOT OBS	4640	7460	2061	198	1	14360		10.2	3767	2609	3677	4327
TOT PCT	32.3	51.9	14.4	1.4	*		100.0		100.0	100.0	100.0	100.0

APRIL

PERIOD: (PRIMARY) 1945-1974
(OVER-ALL) 1895-1974

AREA 0032 SAN DIEGO
32.6N 118.0W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	1.8	6.5	41.9	42.8	7.1	.2	.0	11.5	100.0	3747
06&09	3.1	8.3	43.2	38.2	6.9	.3	.0	10.8	100.0	2609
12&15	5.2	12.7	49.3	28.0	4.3	.2	.0	8.9	100.0	3677
18&21	3.1	9.6	48.6	34.1	4.4	.2	.0	9.8	100.0	4327
TOT	460	1342	6820	5108	798	34	0	10.2		14360
PCT	3.2	9.3	48.1	35.6	5.6	.2	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	3.5	.7	1.5	1.9		3.7
NE	.9	.2	.3	.5		3.6
E	.9	.2	.4	.6		3.9
SE	.9	.3	.9	1.5		5.4
S	1.5	.6	1.6	2.8		5.5
SW	2.3	.8	2.4	3.1		5.1
W	10.5	3.3	6.5	7.1		4.2
NW	17.3	4.9	8.1	8.8		3.7
VAR	.0	.0	.0	.0		.0
CALM	1.1	.3	.6	1.9		4.7
TOT OBS	3550	1022	2028	2513	9093	4.2
TOT PCT	38.8	11.2	22.3	27.6	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NM >4/8) AND OCCURRENCE OF NM <5/8 BY WIND DIRECTION

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NM <5/8 ANY HGT	TOTAL OBS
N	.2	*	.1	.3	1.2	.9	.1	*	*	.1	4.8	
NE	.1	.0	*	.1	.2	.2	*	.0	.0	*	1.2	
E	.1	*	*	.1	.3	.2	*	*	*	*	1.3	
SE	.1	*	.1	.2	.9	.5	.1	.0	*	*	1.9	
S	.2	*	.2	.3	1.7	1.1	.2	*	*	.1	2.7	
SW	.1	*	.2	.5	1.9	1.5	.2	.1	.1	.1	3.9	
W	.3	*	.4	1.3	3.0	3.5	.3	.1	.1	.3	10.1	
NW	.4	.1	.6	1.7	6.0	4.5	.4	.1	.1	.3	24.9	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.1	*	.1	.3	.7	.3	*	*	*	*	1.6	
TOT OBS	146	23	147	430	1636	1191	139	40	24	81	3280	9093
TOT PCT	1.6	.3	1.6	4.7	18.0	12.7	1.5	.4	.3	.9	36.1	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NM >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM) * OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >50YD	* OR >0
* OR >6500	.7	1.1	1.1	1.1	1.1	1.1	1.1	1.1
* OR >5000	1.0	1.5	1.6	1.6	1.6	1.6	1.6	1.6
* OR >3500	2.1	3.0	3.0	3.1	3.1	3.1	3.1	3.1
* OR >2000	10.5	15.4	15.6	15.6	15.6	15.6	15.6	15.6	15.6
* OR >1000	19.8	32.7	33.5	33.6	33.6	33.6	33.6	33.7
* OR >600	21.4	36.8	38.2	38.4	38.4	38.4	38.4	38.4
* OR >300	21.6	37.7	39.5	40.0	40.0	40.0	40.0	40.0
* OR >150	21.7	37.9	39.8	40.2	40.2	40.3	40.3
* OR > 0	21.7	38.1	40.1	41.0	41.2	41.6	41.9
TOTAL	1987	3478	3663	3709	3747	3762	3802	3827

TOTAL NUMBER OF OBS: 9138 PCT FREQ NM <5/8: 58.1

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
28.5	7.8	11.4	6.1	4.2	4.9	7.9	5.5	22.1	1.5	9434

APRIL

PERIOD: (PRIMARY) 1965-1974
(OVER-ALL) 1895-1974

AREA 0032 SAN DIEGO
32.6N 118.0W

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	•	•	•	•	.0	.0	•	
	NO PCP	.1	.1	.1	.1	.1	.1	.2	.3	.0	.1	1.1	
	TOT %	.1	.1	.1	.1	.1	.1	.2	.3	.0	.1	1.1	
1/2<1	PCP	•	•	.0	.0	•	•	•	•	.0	•	.1	
	NO PCP	.1	•	•	•	•	•	.1	.2	.0	.1	.6	
	TOT %	.1	•	•	•	•	.1	.1	.2	.0	.1	.6	
1<2	PCP	•	.0	•	•	•	•	•	•	.0	.0	.1	
	NO PCP	.1	.1	•	.1	.1	.1	.2	.3	.0	.1	1.2	
	TOT %	.1	.1	•	.1	.1	.2	.3	.4	.0	.1	1.4	
2<5	PCP	•	•	•	•	.1	•	.1	.1	.0	.0	.3	
	NO PCP	.3	.1	.1	.2	.4	.5	.9	1.3	.0	.2	4.0	
	TOT %	.3	.1	.1	.2	.5	.5	1.0	1.3	.0	.2	4.3	
5<10	PCP	•	•	•	•	.2	.2	.2	.2	.0	•	.9	
	NO PCP	2.4	.7	.8	1.5	2.4	3.2	9.2	10.6	.0	1.3	32.0	
	TOT %	2.4	.7	.8	1.5	2.6	3.3	9.4	10.8	.0	1.3	32.9	
10+	PCP	•	•	•	.1	.1	•	.1	.1	.0	•	.5	
	NO PCP	4.4	1.2	1.1	1.9	3.2	5.0	16.7	24.6	.0	1.2	59.3	
	TOT %	4.4	1.2	1.1	2.0	3.3	5.0	16.8	24.7	.0	1.2	59.7	
	TOT OBS												13872
	TOT PCT	7.5	2.2	2.2	3.9	6.6	9.2	27.8	37.6	.0	3.0	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	•	•	•	•	•	•	•	•	.0	.1	.4	
	4-10	.1	•	•	.1	•	.1	.2	.2	.0		.6	
	11-21	•	•	.0	.0	•	•	.1	.1	.0		.2	
	22+	.0	.0	.0	.0	.0	.0	•	•	.0		•	
	TOT %	.1	.1	•	.1	.1	.1	.3	.3	.0	.1	1.2	
1/2<1	0-3	•	•	•	•	•	•	•	•	.0	.1	.2	
	4-10	•	•	•	•	•	•	.1	.1	.0		.3	
	11-21	.0	.0	.0	•	•	•	•	•	.0		.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.1	•	•	•	•	.1	.2	.2	.0	.1	.6	
1<2	0-3	•	•	•	•	•	•	.1	[illegible]	.0	.1	.4	
	4-10	.1	•	•	.1	.1	.1	.2	.2	.0		.8	
	11-21	•	•	.0	•	•	•	•	.2	.0		.3	
	22+	.0	.0	.0	.0	•	•	•	•	.0		•	
	TOT %	.1	.1	.1	.1	.2	.2	.3	.4	.0	.1	1.4	
2<5	0-3	•	.1	.1	.1	.1	.1	.1	.1	.0	.2	.9	
	4-10	.2	•	.1	.1	.3	.3	.6	.9	.0		2.6	
	11-21	.1	•	•	•	•	.1	.2	.4	.0		.9	
	22+	.0	.0	•	.0	•	•	•	•	.0		.1	
	TOT %	.3	.1	.2	.2	.5	.5	1.0	1.4	.0	.2	4.3	
5<10	0-3	.3	.2	.3	.3	.4	.4	.8	.6	.0	1.3	4.6	
	4-10	1.3	.4	.5	.9	1.8	2.1	4.8	4.6	.0		16.2	
	11-21	.7	.1	•	.2	.5	.7	3.3	4.7	.0		10.3	
	22+	.1	•	•	•	.1	•	.4	.7	.0		1.3	
	TOT %	2.3	.7	.8	1.5	2.8	3.3	9.3	10.6	.0	1.3	32.4	
10+	0-3	.3	.3	.3	.4	.8	.7	1.1	.9	.0	1.4	6.0	
	4-10	2.0	.7	.7	1.1	2.0	3.2	7.5	8.3	.0		25.4	
	11-21	1.7	.1	.1	.4	.7	1.1	7.0	12.6	.0		23.9	
	22+	.2	•	•	•	•	.1	1.2	2.6	.0		4.4	
	TOT %	4.4	1.2	1.1	1.9	3.2	5.0	16.8	24.6	.0	1.4	59.7	
	TOT OBS												14186
	TOT PCT	7.4	2.2	2.2	3.9	6.6	9.2	27.9	37.5	.0	3.2	100.0	

APRIL

PERIOD: (PRIMARY) 1945-1974
(OVER-ALL) 1895-1974

AREA 0032 SAN DIEGO
32.6N 118.0W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET,NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00E03	.9	.5	1.2	4.9	14.8	10.2	1.2	.3	.4	1.1	35.3	64.7	2336
06E09	1.7	.1	1.6	3.5	13.9	11.7	1.5	.4	.2	.7	37.4	62.6	2068
12E15	2.2	.3	2.0	5.5	20.3	13.0	1.6	.5	.2	.5	48.0	52.0	2220
18E21	1.5	.4	1.6	4.8	19.4	12.7	1.5	.5	.2	1.1	43.7	56.3	2689
TOT	146	24	149	437	1647	1193	135	40	24	81	3838	5477	9313
PCT	1.6	.3	1.6	4.7	17.7	12.4	1.4	.4	.3	.9	41.2	58.8	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00E03	.7	.3	1.5	3.9	33.3	60.2	3725
06E09	1.2	.5	.4	3.0	31.3	63.6	2596
12E15	1.9	1.0	2.1	4.7	31.3	58.9	3634
18E21	1.0	.7	2.0	5.7	33.2	57.4	4318
TOT	172	92	280	639	4628	8512	14273
PCT	1.2	.6	1.6	4.5	32.4	59.6	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET,NH >4/8),BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <3	1000+ AND5+	NH <5/8 5+ AND	TOTAL OBS
00E03	1.0	2.6	9.4	28.2	62.3	2280
06E09	1.8	3.7	8.3	30.3	61.4	2034
12E15	2.3	4.9	12.1	37.7	50.2	2182
18E21	1.6	4.0	12.2	34.4	53.4	2642
TOT	151	348	968	2990	5180	9138
PCT	1.7	3.8	10.6	32.7	56.7	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
80/84	*	*	*	*	.0	.0	.0	.0	6	.1
75/79	*	*	.1	*	*	*	.0	.0	26	.2
70/74	*	*	.1	.2	.3	.3	.1	.1	135	1.2
65/69	.0	.1	.2	.6	1.4	1.9	1.0	.6	676	5.8
60/64	.0	.1	.4	1.4	5.4	10.3	9.6	2.8	3492	30.0
55/59	.0	*	.1	1.6	6.7	16.3	22.7	7.8	6421	55.2
50/54	.0	.0	*	.3	.9	1.4	2.8	1.8	839	7.2
45/49	.0	.0	.0	.0	*	.1	.1	.1	26	.2
40/44	.0	.0	.0	.0	*	.0	.0	.0	1	*
TOTAL	10	32	117	490	1720	3508	4217	1528	11622	100.0
PCT	.1	.3	1.0	4.2	14.8	30.2	36.3	13.1		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
*	.0	*	.0	.0	.0	*	*	.0	*
*	*	*	.0	*	*	*	.1	.0	*
*	*	*	*	.1	.1	.3	.4	.0	.1
.4	.1	.1	.3	.5	.6	1.4	2.1	.0	.2
2.5	.7	.6	1.4	2.3	3.2	8.3	10.1	.0	.9
4.0	1.1	1.2	2.2	3.6	4.8	15.4	21.4	.0	1.5
.4	.1	.2	.2	.2	.4	2.0	3.5	.0	.1
*	*	*	*	*	*	.1	*	.0	*
.0	.0	.0	.0	.0	*	.0	.0	.0	.0
7.4	2.2	2.2	4.2	6.7	9.2	27.6	37.7	.0	2.9

TABLE 15

MEANS,EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00E03	83	72	67	59	55	52	44	59.8	3744
06E09	83	69	63	57	53	52	49	57.7	2608
12E15	77	66	63	57	53	50	45	57.4	3670
18E21	82	71	67	60	55	53	48	60.2	4326
TOT	83	70	65	58	54	52	44	58.9	14348

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00E03	.1	7.0	16.5	30.5	34.3	11.6	77	3116
06E09	.1	2.7	12.1	30.5	39.2	15.3	80	2013
12E15	*	3.4	11.6	25.9	40.8	18.2	81	3007
18E21	.1	7.5	17.7	33.2	32.3	9.2	76	3566
TOT	11	642	1737	3529	4239	1544	78	11702

APRIL

PERIOD: (PRIMARY) 1945-1974
(OVER-ALL) 1895-1974

AREA 0032 SAN DIEGO
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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	45 48	49 52	53 56	57 60	61 64	65 68	69 72	73 76	77 80	81 84	TOT	W FOG	WO FOG
23/25	.0	.0	.0	.0	.0	.0	.0	.0	*	*	4	.0	*
20/22	.0	.0	.0	.0	*	.0	*	*	*	.0	6	.0	*
17/19	.0	.0	.0	.0	.0	*	*	*	*	*	11	.0	.1
14/16	.0	.0	.0	.0	*	.1	*	.1	*	*	43	*	.3
11/13	.0	.0	*	*	.2	.1	.2	.1	*	.0	93	.1	.7
9/10	.0	.0	.0	.1	.3	.3	.3	.1	.0	.0	131	.1	1.0
7/8	.0	.0	.0	.4	.5	.9	.3	*	.0	.0	269	.1	2.0
6	.0	.0	*	.5	.9	.5	.1	.0	.0	.0	248	.2	1.8
5	.0	*	.1	.7	1.1	.8	.1	*	.0	.0	359	.1	2.7
4	.0	.0	.2	1.0	1.9	.5	.1	.0	.0	.0	467	.1	3.6
3	.0	.0	.3	1.1	2.3	.6	.1	*	.0	.0	546	.2	4.2
2	.0	*	.4	3.2	2.7	.4	.0	.0	.0	.0	842	.4	6.3
1	.0	.0	.7	3.7	2.8	.3	.0	.0	.0	.0	936	.3	7.2
0	.0	.1	1.5	7.2	2.5	.1	*	.0	.0	.0	1442	.5	10.9
-1	.0	.1	1.5	7.3	1.9	*	.0	.0	.0	.0	1370	.4	10.5
-2	.0	.1	3.7	8.0	1.1	*	.0	.0	.0	.0	1632	.7	12.3
-3	.0	.2	3.6	6.5	.6	*	.0	.0	.0	.0	1369	.5	10.4
-4	.0	.3	4.7	4.2	.3	*	.0	.0	.0	.0	1185	.5	9.0
-5	.0	.2	3.1	2.8	.2	*	*	.0	.0	.0	792	.4	5.9
-6	*	.3	2.2	.8	*	*	.0	.0	.0	.0	416	.1	3.2
-7/-8	*	.2	1.4	.7	.1	.0	.0	.0	.0	.0	304	.2	2.2
-9/-10	*	.1	.4	.1	*	*	.0	.0	.0	.0	81	.1	.5
-11/-13	*	*	.1	.1	*	.0	.0	.0	.0	.0	38	*	.3
-14/-16	.0	.0	*	*	.0	.0	.0	.0	.0	.0	7	*	*
TOTAL	6	202	3009	6100	2442	608	159	51	11	3	12591	607	11984
PCT	*	1.6	23.9	48.4	19.4	4.8	1.3	.4	.1	*	100.0	4.8	95.2

PERIOD: (OVER-ALL) 1963-1974

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	.8	*	.0	.0	.0	1.0
1-2	.3	2.2	1.2	.0	.0	.0	3.8
3-4	*	.5	1.0	.1	.0	.0	1.6
5-6	.0	.1	.3	.1	.0	.0	.6
7	.0	*	.2	.1	.0	.0	.3
8-9	.0	*	*	.0	.0	.0	.1
10-11	.0	.0	*	.0	.0	.0	*
12	.0	.0	*	.0	.0	.0	*
13-16	.0	*	.0	.0	.0	.0	*
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.6	3.7	2.9	.3	.0	.0	7.5

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	.4	*	.0	.0	.0	.6
1-2	.2	.6	.2	.0	.0	.0	1.0
3-4	.0	.1	.1	.1	.0	.0	.2
5-6	.0	.0	*	*	.0	.0	*
7	.0	.1	.0	.0	.0	.0	.1
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.5	1.1	.3	.1	.0	.0	2.0

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	.4	.0	.0	.0	.0	.7
1-2	.1	.7	.2	.0	.0	.0	.9
3-4	.0	*	.0	.0	.0	.0	*
5-6	.0	*	*	.0	.0	.0	.1
7	.0	*	.0	.0	.0	.0	*
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.4	1.1	.2	.0	.0	.0	1.7

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	1.1	.0	.0	.0	.0	1.4
1-2	.3	1.1	.4	.0	.0	.0	1.8
3-4	*	.1	.2	.0	.0	.0	.3
5-6	.0	*	.1	.0	.0	.0	.1
7	.0	.0	*	.0	.0	.0	*
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.6	2.2	.7	.0	.0	.0	3.5

PERIOD: (OVER-ALL) 1963-1974

APRIL

TABLE 18 (CONT)

AREA 0032 SAN DIEGO
32.6N 118.0W

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

	S							SW						
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.6	1.6	*	.0	.0	.0	2.2	.4	1.8	.1	.0	.0	.0	2.4
1-2	.2	2.0	.5	.0	.0	.0	2.8	.3	3.2	1.1	.0	.0	.0	4.6
3-4	.0	.5	.4	.1	.0	.0	1.0	*	.5	.6	.1	.0	.0	1.2
5-6	.0	.1	.1	*	.0	.0	.2	*	.0	.2	.0	.0	.0	.2
7	.0	.0	.0	.0	.0	.0	.0	.0	*	*	*	.0	.0	.1
8-9	.0	.0	.0	*	.0	.0	*	.0	.0	.1	*	.0	.0	.1
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	.0	.0	.0	*
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.8	4.2	1.0	.2	.0	.0	6.2	.8	5.6	2.2	.1	.0	.0	8.7

	W							NW							TOTAL
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	PCT
<1	.5	2.3	.2	.0	.0	.0	3.0	.4	2.2	.2	.0	.0	.0	2.8	
1-2	.7	7.6	4.7	.0	.0	.0	12.9	.5	8.8	7.0	.0	.0	.0	16.3	
3-4	.1	1.8	4.7	.8	.0	.0	7.4	*	2.0	8.6	1.5	.0	.0	12.1	
5-6	*	.2	1.1	.3	*	.0	1.7	.0	.5	3.1	.8	*	.0	4.4	
7	.0	*	.8	.5	*	.0	1.4	.0	.2	1.6	.7	.1	.0	2.6	
8-9	.0	*	.1	*	*	.0	.2	.0	*	.4	.5	*	.0	.9	
10-11	.0	.0	.1	*	*	.0	.2	.0	.0	.1	.4	.1	.0	.6	
12	.0	.0	.0	*	.0	.0	*	.0	.0	.1	.1	*	.0	.2	
13-16	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	*	.0	.0	*	
17-19	.0	.0	.0	*	.0	.0	*	.0	.0	.0	*	.0	.0	*	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	1.3	12.0	11.7	1.8	.1	.0	26.9	.9	13.7	21.1	4.0	.3	.0	40.0	96.5

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	6.3	10.6	.6	.0	.0	.0	17.5	
1-2	2.9	26.1	15.2	.0	.0	.0	44.2	
3-4	.3	5.5	15.4	2.6	.0	.0	23.9	
5-6	*	1.0	4.9	1.3	*	.0	7.2	
7	.0	.4	2.7	1.4	.1	.0	4.6	
8-9	.0	.1	.6	.6	.1	.0	1.3	
10-11	.0	.0	.3	.5	.1	.0	.9	
12	.0	.0	.1	.1	*	.0	.3	
13-16	.0	*	.0	.1	.0	.0	.1	
17-19	.0	.0	.0	*	.0	.0	*	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
								3256
TOT PCT	9.6	43.7	39.9	6.5	.4	.0	100.0	

PERIOD: (OVER-ALL) 1949-1974

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	2.1	22.8	20.7	5.9	2.8	.7	.2	.1	.1	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	3845	3
6-7	*	3.2	7.2	4.7	2.5	1.6	.5	.1	.1	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	1384	4
8-9	*	1.1	3.0	1.8	1.6	.9	.5	.1	.1	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	632	5
10-11	.0	.7	.7	.9	.5	.4	.1	.1	*	*	*	.0	.0	.0	.0	.0	.0	.0	.0	238	5
12-13	.0	.0	.3	.1	.1	.1	.1	.1	*	.0	.0	*	.0	.0	.0	.0	.0	.0	.0	50	7
>13	.0	.0	.0	*	.1	.1	*	*	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	20	9
INDET	6.9	2.4	.9	.3	.2	.2	.1	*	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	760	1
TOTAL	627	2096	2274	953	535	266	107	34	30	4	2	1	0	0	0	0	0	0	0	6929	3
PCT	9.0	30.2	32.8	13.8	7.7	3.8	1.5	.5	.4	.1	*	*	.0	.0	.0	.0	.0	.0	.0	100.0	

MAY

PERIOD: (PRIMARY) 1945-1973
(OVER-ALL) 1888-1973

AREA 0032 SAN DIEGO
32.6N 118.0W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	.1	.0	.3	.0	.0	.0	.0	.4	.2	.0	5.4	.0	7.6		.0	86.4
NE	.0	.0	.0	.0	.0	.0	.0	.0	.5	.0	10.2	.5	9.5		.0	79.2
E	.4	.0	.4	.0	.0	.0	.0	.8	.0	.0	6.0	.0	11.2		.0	82.0
SE	.3	.0	.8	.0	.0	.0	.0	1.0	1.1	.0	5.6	.0	11.0		.0	81.2
S	.3	.3	1.6	.0	.0	.0	.1	2.2	.6	.1	4.9	.2	13.4		.3	76.2
SW	.5	.5	.9	.0	.0	.0	.0	1.9	.6	.0	3.7	.1	9.5		.1	84.1
W	.4	.3	1.0	.0	.0	.0	.0	1.6	.4	*	3.1	.1	7.3		.0	87.5
NW	.2	.2	.6	.0	.0	.0	.0	.9	.3	.0	2.9	*	6.2		.0	89.6
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	.0
CALM	.0	.2	.2	.0	.0	.0	.0	.5	.5	.0	10.7	.0	13.8		.0	74.5
TOT PCT	.3	.3	.7	.0	.0	.0	*	1.2	.4	*	3.8	.1	7.8		*	86.7
TOT OBS: 14223																

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00&03	.2	.2	.3	.0	.0	.0	.0	.6	.2	.0	1.9	*	7.4		*	89.8
06&09	.3	.3	.6	.0	.0	.0	.0	1.1	.5	.0	3.6	.0	4.8		.0	89.9
12&15	.5	.4	1.6	.0	.0	.0	*	2.4	.4	.1	5.3	.1	8.1		.0	83.6
18&21	.2	.2	.5	.0	.0	.0	.0	.8	.3	*	4.3	.1	10.3		*	84.1
TOT PCT	.3	.3	.7	.0	.0	.0	*	1.2	.4	*	3.8	.1	7.9		*	86.6
TOT OBS: 14323																

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	.8	3.0	1.8	.2	*	.0		5.8	9.1	3.1	4.8	6.9	6.3	8.3	9.1	5.8	3.1
NE	.5	.8	.1	*	.0	.0		1.3	5.2	.6	1.1	.7	1.3	2.5	3.4	1.0	.6
E	.6	1.0	.2	.0	.0	.0		1.8	5.3	.3	.6	1.6	2.2	3.1	3.7	2.0	1.0
SE	.8	1.4	.3	.0	.0	.0		2.5	5.8	1.1	1.6	2.0	2.6	2.0	5.3	3.1	2.7
S	1.1	3.6	.6	*	.0	.0		5.3	6.5	3.9	4.4	3.7	3.9	4.7	7.9	7.3	5.5
SW	1.6	5.8	1.6	*	*	.0		10.1	7.1	10.3	10.4	6.4	7.6	6.9	9.9	11.3	15.8
W	2.2	16.2	12.3	1.2	*	.0		32.0	10.3	38.6	36.3	28.9	33.8	25.3	23.2	29.9	39.4
NW	1.8	14.8	18.4	3.0	.1	.0		38.2	12.3	41.3	39.3	46.1	38.2	41.3	32.5	36.2	31.0
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	3.1							3.1	.0	.8	1.5	3.7	4.1	6.0	5.1	3.4	1.1
TOT OBS	1847	7007	5175	648	22	0	14699		9.9	2453	1440	1823	990	1897	1792	2307	1997
TOT PCT	12.6	47.7	35.2	4.4	.1	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	2.0	3.2	.5	*	.0		5.8	9.1	3.8	6.7	8.7	4.6
NE	1.0	.3	*	*	.0		1.3	5.2	.8	.9	2.9	.8
E	1.3	.5	*	.0	.0		1.8	5.3	.4	1.8	3.4	1.5
SE	1.7	.8	*	.0	.0		2.5	5.8	1.3	2.2	3.6	2.9
S	2.9	2.3	.1	.0	.0		5.3	6.5	4.1	3.8	6.2	6.5
SW	5.0	4.8	.2	*	.0		10.1	7.1	10.4	6.8	8.4	13.3
W	8.5	19.4	3.9	.2	.0		32.0	10.3	37.7	30.6	24.2	34.3
NW	6.7	22.8	8.0	.7	.0		38.2	12.3	40.5	43.3	37.0	33.8
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	3.1						3.1	.0	1.1	3.9	5.6	2.3
TOT OBS	4732	7945	1876	146	0	14699		9.9	3893	2813	3689	4304
TOT PCT	32.2	54.1	12.8	1.0	.0		100.0		100.0	100.0	100.0	100.0

PERIOD: (PRIMARY) 1965-1973
(OVER-ALL) 1888-1973

AREA 0032 SAN DIEGO
32.6N 118.0W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	1.1	6.3	42.0	44.7	5.8	.2	.0	11.4	100.0	3893
06&09	3.9	7.7	44.6	37.0	6.5	.4	.0	10.6	100.0	2813
12&15	5.6	15.0	49.7	26.5	3.2	.1	.0	8.4	100.0	3689
18&21	2.3	8.8	53.1	32.9	2.9	.1	.0	9.4	100.0	4304
TOT	454	1393	7007	5175	648	22	0	9.9		14699
PCT	3.1	9.5	47.7	35.2	4.4	.1	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	2.4	.4	1.2	2.3		4.5
NE	.5	.1	.1	.5		4.4
E	.7	.1	.4	.7		4.7
SE	.7	.2	.6	.8		4.9
S	.9	.3	1.0	2.5		5.9
SW	2.0	.5	2.1	4.1		5.6
W	9.7	2.6	7.2	12.4		5.0
NW	12.9	3.8	8.3	14.2		4.7
VAR	.0	.0	.0	.0		.0
CALM	1.0	.1	.6	1.7		5.3
TOT OBS	2911	775	2032	3715	9433	5.0
TOT PCT	30.9	8.2	21.5	39.4	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.1	*	.1	.4	1.5	.9	.1	*	.0	*	3.1	
NE	*	.0	.1	.1	.3	.2	*	.0	.0	.0	.7	
E	*	.0	*	.1	.5	.3	*	*	*	*	.9	
SE	*	.0	*	.2	.6	.4	*	*	*	*	1.1	
S	.1	.0	.1	.3	1.7	.9	.1	*	*	*	1.6	
SW	.1	.0	.1	.6	2.9	1.6	.1	.1	*	*	3.1	
W	.3	*	.5	2.2	8.1	5.1	.5	.1	.1	.2	14.7	
NW	.3	*	.7	3.1	9.6	5.2	.7	.2	.1	.2	19.0	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.1	*	.1	.3	1.0	.4	.1	*	.0	*	1.3	
TOT OBS	97	11	171	680	2474	1414	168	49	24	30	4295	9433
TOT PCT	1.0	.1	1.8	7.2	26.2	15.0	1.8	.5	.3	.5	45.5	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM) * OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >50YD	* OR >0
* OR >6500	.6	.8	.8	.8	.8	.8	.8	.8
* OR >5000	.9	1.2	1.3	1.3	1.3	1.3	1.3	1.3
* OR >3500	2.1	3.0	3.1	3.1	3.1	3.1	3.1	3.1
* OR >2000	11.4	17.8	18.0	18.0	18.0	18.0	18.0	18.0
* OR >1000	24.1	43.0	44.2	44.3	44.3	44.3	44.3	44.3
* OR >600	26.6	49.3	51.3	51.4	51.5	51.5	51.5	51.5
* OR >300	27.1	50.5	53.0	53.2	53.3	53.3	53.3	53.3
* OR >150	27.1	50.6	53.1	53.3	53.4	53.4	53.4	53.4
* OR > 0	27.1	50.7	53.3	53.8	54.1	54.2	54.4	54.4
TOTAL	2569	4803	5052	5091	5120	5129	5148	5156

TOTAL NUMBER OF OBS: 9471 PCT FREQ NH <5/8: 45.C

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
20.1	7.3	9.8	4.7	3.4	4.7	7.8	6.4	34.8	1.0	9867

MAY

PERIOD: (PRIMARY) 1945-1973
(OVER-ALL) 1888-1973

AREA 0032 SAN DIEGO
32.6N 118.0W

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	PCP	.0	.0	.0	.0	.0	*	*	.0	.0	*	*	
<1/2	NO PCP	*	*	*	*	*	*	.1	.1	.0	*	.4	
	TOT %	*	*	*	*	*	*	.1	.1	.0	.1	.4	
	PCP	.0	.0	.0	.0	*	*	.0	.0	.0	.0	*	
1/2<1	NO PCP	.1	*	*	.0	.1	.1	.1	.1	.0	*	.4	
	TOT %	.1	*	*	.0	.1	.1	.1	.1	.0	*	.5	
	PCP	.0	.0	.0	.0	.0	.0	*	*	.0	.0	*	
1<2	NO PCP	.1	*	*	*	.1	.1	.2	.2	.0	*	.8	
	TOT %	.1	*	*	*	.1	.1	.2	.2	.0	*	.8	
	PCP	*	.0	*	*	*	.1	.1	.1	.0	.0	.3	
2<5	NO PCP	.3	.1	.1	.1	.3	.5	1.2	1.2	.0	.2	4.1	
	TOT %	.3	.1	.1	.1	.4	.6	1.3	1.3	.0	.2	4.4	
	PCP	*	.0	.0	*	.1	.1	.3	.2	.0	*	.6	
5<10	NO PCP	2.0	.6	.8	.9	2.1	4.1	11.2	11.6	.0	1.3	34.6	
	TOT %	2.0	.6	.8	.9	2.2	4.2	11.5	11.8	.0	1.3	35.3	
	PCP	.0	.0	*	*	*	*	.1	.1	.0	.0	.2	
10+	NO PCP	3.3	.6	.9	1.4	2.6	5.1	18.7	24.5	.0	1.3	58.4	
	TOT %	3.3	.6	.9	1.4	2.6	5.1	18.8	24.6	.0	1.3	58.6	
	TOT OBS												14212
	TOT PCT	9.9	1.3	1.8	2.5	5.3	10.1	32.1	38.1	.0	2.9	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	0-3	*	*	*	*	.0	*	*	*	.0	.1	.2	
<1/2	4-10	*	*	*	*	*	*	.1	.1	.0		.2	
	11-21	*	.0	.0	.0	.0	.0	*	*	.0		.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	*	*	*	*	*	*	.2	.1	.0	.1	.5	
	0-3	*	*	*	.0	*	*	*	*	.0	*	.2	
1/2<1	4-10	*	.0	*	.0	*	*	*	*	.0		.2	
	11-21	*	.0	.0	.0	*	*	*	*	.0		.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.1	*	*	.0	.1	.1	.1	.1	.0	*	.5	
	0-3	*	*	*	*	*	*	*	*	.0	*	.2	
1<2	4-10	*	*	*	*	.1	.1	.2	.1	.0		.5	
	11-21	*	.0	.0	*	.0	*	.1	.1	.0		.3	
	22+	.0	.0	.0	.0	.0	.0	*	*	.0		*	
	TOT %	.1	*	*	*	.1	.1	.3	.3	.0	*	1.0	
	0-3	*	*	*	.1	.1	.1	.2	.1	.0	.2	.8	
2<5	4-10	.2	.1	.1	.1	.3	.5	.9	.7	.0		2.8	
	11-21	.1	*	*	*	*	.1	.3	.5	.0		1.0	
	22+	.0	.0	.0	.0	.0	.0	*	*	.0		*	
	TOT %	.3	.1	.1	.2	.4	.6	1.4	1.3	.0	.2	4.6	
	0-3	.3	.2	.3	.3	.4	.5	.8	.7	.0	1.3	4.8	
5<10	4-10	1.1	.3	.4	.5	1.5	2.9	6.2	5.1	.0		18.1	
	11-21	.5	*	.1	.1	.2	.6	4.1	5.2	.0		10.8	
	22+	.1	*	.0	.0	.0	*	.3	.7	.0		1.0	
	TOT %	2.0	.6	.7	.9	2.1	4.1	11.3	11.7	.0	1.3	34.8	
	0-3	.4	.2	.3	.4	.6	.9	1.1	1.0	.0	1.4	6.3	
10+	4-10	1.7	.3	.5	.7	1.7	3.3	8.8	8.7	.0		25.7	
	11-21	1.1	*	.1	.2	.3	.9	7.9	12.6	.0		23.1	
	22+	.1	*	.0	.0	*	*	.9	2.4	.0		3.4	
	TOT %	3.3	.6	.9	1.4	2.6	5.1	18.7	24.6	.0	1.4	58.6	
	TOT OBS												14536
	TOT PCT	5.8	1.3	1.8	2.5	5.3	10.1	32.0	38.1	.0	3.1	100.0	

PERIOD: (PRIMARY) 1945-1973
(OVER-ALL) 1888-1973

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET,NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00&03	.3	.1	1.5	6.3	22.4	10.7	1.3	.8	.2	.6	44.2	55.8	2403
06&09	.9	.1	1.5	6.9	23.5	14.5	1.9	.3	.4	.4	50.2	49.8	2223
12&15	2.0	.2	2.5	7.9	29.8	18.8	1.6	.4	.3	.5	64.1	35.9	2315
18&21	.9	.1	1.7	7.2	27.3	14.9	2.2	.6	.1	.6	55.7	44.3	2697
TOT	97	11	172	683	2487	1419	171	49	24	50	5163	4475	9638
PCT	1.0	.1	1.8	7.1	25.8	14.7	1.8	.5	.2	.5	53.6	46.4	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00&03	.3	.1	1.0	3.8	32.9	61.9	3868
06&09	.4	.4	.5	2.5	36.1	60.2	2805
12&15	1.0	1.1	1.6	5.9	36.3	54.1	3674
18&21	.3	.4	1.2	5.9	34.0	58.2	4294
TOT	69	72	162	685	5082	8571	14641
PCT	.5	.5	1.1	4.7	34.7	58.5	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET,NH >4/8),BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	.3	1.9	9.5	36.5	54.1	2344
06&09	.9	2.5	11.0	40.3	48.7	2203
12&15	2.1	4.8	14.7	50.5	34.8	2292
18&21	.9	2.9	13.3	44.7	42.1	2632
TOT	95	286	1151	4076	4244	9471
PCT	1.0	3.0	12.2	43.0	44.8	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
80/84	*	*	*	.0	*	*	.0	.0	5	*
75/79	*	.1	.1	.1	*	.1	*	.0	36	.3
70/74	.0	.1	.1	.4	.5	.4	.1	.1	193	1.6
65/69	*	*	.1	.6	2.1	3.2	1.9	.7	1027	8.8
60/64	.0	.0	.1	.8	6.2	16.0	15.6	4.4	5043	43.1
55/59	.0	.0	*	.2	2.1	12.7	21.4	7.0	5088	43.5
50/54	.0	.0	.0	*	.1	.4	1.3	.9	311	2.7
TOTAL	5	17	45	258	1301	3842	4712	1523	11703	100.0
PCT	*	.1	.4	2.2	11.1	32.8	40.3	13.0		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.0	*	*	.0	*	*	.0	.0
*	*	.0	*	*	*	*	.1	.0	*
.1	*	*	.1	.1	.3	.3	.6	.0	.1
.5	.1	.2	.3	.5	1.2	3.0	2.8	.0	.1
2.4	.6	.7	1.3	2.7	5.5	14.2	14.3	.0	1.5
2.6	.6	.6	.8	1.8	3.3	14.0	18.7	.0	1.1
.1	*	.1	*	*	.1	.8	1.4	.0	*
5.8	1.4	1.6	2.5	5.3	10.3	32.3	37.9	.0	2.9

TABLE 15

MEANS,EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00&03	82	72	68	60	56	54	50	61.1	3896
06&09	75	66	64	58	55	53	48	58.7	2830
12&15	81	69	64	59	54	52	50	59.0	3714
18&21	82	72	68	61	56	54	48	61.5	4302
TOT	82	71	67	60	55	53	48	60.2	14742

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00&03	.1	3.2	12.1	35.2	39.1	10.4	79	3195
06&09	.0	.6	6.1	27.9	48.4	16.9	83	2147
12&15	.0	1.8	8.0	28.2	43.9	18.2	82	2940
18&21	.1	4.4	16.0	37.2	33.4	8.9	78	3509
TOT	5	322	1310	3859	4752	1543	80	11791

PERIOD: (PRIMARY) 1945-1973
(OVER-ALL) 1888-1973

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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	45 48	49 52	53 56	57 60	61 64	65 68	69 72	73 76	77 80	81 84	TOT	W FOG	WO FOG
17/19	.0	.0	.0	.0	.0	.0	.0	*	*	.0	3	.0	*
14/16	.0	.0	.0	.0	*	*	*	.1	*	*	25	*	.2
11/13	.0	.0	.0	*	*	.2	.1	.1	*	.0	59	*	.4
9/10	.0	.0	.0	*	.2	.2	.3	*	*	.0	109	*	.8
7/8	.0	*	.0	.1	.5	1.0	.4	*	.0	.0	267	*	2.0
6	.0	.0	*	.2	.6	.6	.1	*	.0	.0	202	*	1.5
5	.0	*	*	.3	1.0	.9	.2	*	.0	.0	326	.1	2.4
4	.0	*	.1	.7	1.8	.9	.1	.0	.0	.0	471	.2	3.4
3	.0	.0	.1	1.0	2.1	1.2	.1	.0	.0	.0	593	.1	4.4
2	.0	*	.2	2.6	3.6	.8	*	.0	.0	.0	960	.4	7.0
1	.0	.0	.6	2.9	3.6	.7	*	.0	.0	.0	1014	.3	7.5
0	*	*	1.0	6.1	4.8	.6	*	.0	.0	.0	1641	.4	12.2
-1	.0	*	1.1	6.2	3.7	.3	.0	.0	.0	.0	1471	.5	10.8
-2	.0	.1	2.1	7.2	3.2	.1	.0	.0	.0	.0	1653	.5	12.2
-3	.0	*	1.9	6.8	2.2	.1	*	.0	.0	.0	1437	.5	10.6
-4	.0	.1	2.3	5.3	1.1	*	.0	.0	.0	.0	1153	.4	8.4
-5	.0	*	1.5	3.5	.6	*	.0	.0	.0	.0	735	.2	5.4
-6	.0	*	1.2	1.7	.3	*	.0	.0	.0	.0	428	.2	3.1
-7/-8	.0	.1	.9	1.4	.2	*	*	.0	.0	.0	341	.1	2.5
-9/-10	.0	*	.3	.3	.1	*	.0	.0	.0	.0	87	.1	.6
-11/-13	.0	*	*	.2	.1	*	.0	.0	.0	.0	41	*	.3
-14/-16	.0	.0	.0	*	*	.0	.0	.0	.0	.0	6	.0	*
TOTAL	2	60	1740	6099	3867	989	214	38	12	1	13022	515	12507
PCT	*	.5	13.4	46.8	29.7	7.6	1.6	.3	.1	*	100.0	4.0	96.0

PERIOD: (OVER-ALL) 1963-1973

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.4	1.1	*	.0	.0	.0	1.5
1-2	.4	1.6	.7	.0	.0	.0	2.6
3-4	*	.7	.5	.1	.0	.0	1.3
5-6	.0	.2	.1	.1	.0	.0	.4
7	.0	.0	.1	.1	.0	.0	.1
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	*	.0	*
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.8	3.5	1.4	.2	*	.0	5.9

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	.3	.0	.0	.0	.0	.5
1-2	.1	.2	*	.0	.0	.0	.4
3-4	.0	.1	.1	.0	.0	.0	.2
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	.6	.1	.0	.0	.0	1.0

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	.4	.0	.0	.0	.0	.7
1-2	.1	.3	.1	.0	.0	.0	.6
3-4	.0	.1	.1	.0	.0	.0	.2
5-6	.0	*	.0	.0	.0	.0	*
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.4	.9	.2	.0	.0	.0	1.4

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	.6	.0	.0	.0	.0	1.0
1-2	.2	.6	.3	.0	.0	.0	1.0
3-4	.0	.1	.1	.0	.0	.0	.1
5-6	.0	*	.0	.0	.0	.0	*
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.5	1.3	.3	.0	.0	.0	2.2

PERIOD: (OVER-ALL) 1963-1973

MAY

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TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

	S							SW						
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.4	1.4	*	.0	.0	.0	1.8	.6	2.1	.1	.0	.0	.0	2.8
1-2	.2	1.6	.3	.0	.0	.0	2.1	.4	3.6	1.1	.0	.0	.0	5.0
3-4	.0	.3	.2	.0	.0	.0	.5	.1	.8	.6	*	.0	.0	1.5
5-6	*	.0	.0	.0	.0	.0	*	.0	*	*	.0	.0	.0	.1
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.6	3.2	.5	.0	.0	.0	4.4	1.0	6.6	1.8	*	.0	.0	9.3

	W							NW							TOTAL
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	PCT
<1	1.0	3.8	.2	.0	.0	.0	5.0	.6	3.2	.1	.0	.0	.0	3.9	
1-2	.8	8.9	5.7	.0	.0	.0	15.4	1.1	8.5	7.3	.0	.0	.0	16.9	
3-4	.1	2.8	5.1	.4	.0	.0	8.4	.2	3.8	8.3	1.0	.0	.0	13.2	
5-6	*	.4	1.1	.3	.0	.0	1.8	*	.8	2.6	.6	.0	.0	4.0	
7	.0	.1	.3	.0	.0	.0	.4	.0	.1	1.4	.6	.0	.0	2.1	
8-9	.0	.0	*	.1	.0	.0	.1	.0	.1	.5	.3	.0	.0	.9	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	*	.2	*	.0	.0	.2	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	.1	*	.0	.1	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.1	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	2.0	15.9	12.4	.7	.0	.0	31.0	1.9	16.4	20.5	2.8	*	.0	41.6	96.8

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	7.0	12.8	.4	.0	.0	.0	20.3	
1-2	3.5	25.2	15.4	.0	.0	.0	44.1	
3-4	.4	8.5	14.9	1.4	.0	.0	25.2	
5-6	.1	1.4	3.8	.9	.0	.0	6.2	
7	.0	.2	1.7	.7	.0	.0	2.6	
8-9	.0	.1	.5	.4	.0	.0	1.0	
10-11	.0	*	.2	*	.0	.0	.2	
12	.0	.0	*	.1	*	.0	.2	
13-16	.0	.0	.0	.1	.0	.0	.1	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
								2980
TOT PCT	11.1	48.3	37.0	3.6	*	.0	100.0	

PERIOD: (OVER-ALL) 1949-1973

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	2.0	26.7	23.0	5.1	1.6	.4	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4179	3
6-7	*	3.4	6.0	4.1	2.0	.6	.3	.1	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	1182	4
8-9	*	1.6	2.6	1.5	1.2	.6	.3	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	565	5
10-11	.1	.7	.6	.6	.5	.3	.1	.1	.1	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	217	5
12-13	.0	.0	.3	.2	.1	.1	.1	.1	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	55	6
>13	.0	.0	.0	.1	*	.1	*	.0	.1	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	20	9
INDET	8.7	2.2	.8	.3	.1	.2	*	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	874	1
TOTAL	766	2459	2360	830	391	156	64	29	30	6	1	0	0	0	0	0	0	0	0	7092	3
PCT	10.8	34.7	33.3	11.7	5.5	2.2	.9	.4	.4	.1	*	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1943-1973
(OVER-ALL) 1889-1973

AREA 0032 SAN DIEGO
32.8N 118.0W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG	DUST BLWG	SNOW	NO SIG WEA
N	.2	.2	.8	.0	.0	.0	.0	1.1	.2	.0	10.2	.6	10.2		.0		77.8
NE	1.3	.0	2.6	.0	.0	.0	.0	3.9	.8	1.0	16.1	.8	14.2		.0		64.2
E	.7	.0	1.9	.0	.0	.0	.0	2.6	.6	.0	15.5	1.0	13.5		.0		66.9
SE	.3	.1	3.0	.0	.0	.0	.0	3.4	.6	.0	9.2	.6	14.3		.0		71.9
S	.3	.2	1.3	.0	.0	.0	.0	1.8	.9	.0	8.4	.1	15.1		.0		73.7
SW	.2	.2	1.2	.0	.0	.0	.0	1.6	.4	.0	6.4	.1	12.1		.0		79.4
W	.1	.1	1.2	.0	.0	.0	.0	1.4	.4	*	6.3	.2	7.8		.0		83.9
NW	.1	.1	1.2	.0	.0	.0	.0	1.4	.4	*	5.4	.1	6.4		.0		86.2
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0		.0
CALM	.0	.0	1.1	.0	.0	.0	.5	1.6	.3	.0	13.6	.3	13.8		.0		70.2
TOT PCT	.2	.1	1.3	.0	.0	.0	*	1.6	.5	*	7.0	.2	9.1		.0		81.7
TOT OBS: 13486																	

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG	DUST BLWG	SNOW	NO SIG WEA
00&03	*	.0	.4	.0	.0	.0	.0	.4	.2	*	4.5	.2	8.9		.0		85.8
06&09	.3	.2	.9	.0	.0	.0	.0	1.4	.6	*	6.3	.3	4.9		.0		86.5
12&15	.3	.2	2.9	.0	.0	.0	.1	3.5	.6	*	9.0	.2	10.0		.0		76.7
18&21	.1	.1	.9	.0	.0	.0	.0	1.1	.5	*	7.9	.1	11.0		.0		79.3
TOT PCT	.2	.1	1.3	.0	.0	.0	*	1.6	.5	*	7.0	.2	9.1		.0		81.7
TOT OBS: 13549																	

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	.9	3.0	1.4	.1	.0	.0		5.3	8.6	2.9	5.3	6.8	6.6	7.1	7.9	4.4	3.6
NE	.5	.7	.1	.0	*	.0		1.4	5.4	.6	.8	1.1	1.3	1.4	3.5	1.5	1.0
E	.5	.9	.1	*	.0	.0		1.5	5.5	.4	.7	.9	2.0	2.7	2.7	2.3	.8
SE	.8	2.5	.5	*	.0	.0		3.8	6.4	1.8	2.9	2.6	3.1	4.5	6.6	5.6	3.2
S	1.3	5.4	1.0	*	*	.0		7.7	6.8	6.6	5.2	5.7	6.0	5.4	12.1	10.0	9.0
SW	1.9	8.2	1.6	*	*	.0		11.7	6.9	12.3	11.7	6.8	9.1	7.8	12.3	12.1	10.8
W	2.6	16.9	10.1	.6	*	.0		30.3	9.4	38.4	34.0	29.7	30.5	24.4	20.4	27.6	35.5
NW	2.0	15.3	19.7	2.2	.1	.0		35.2	11.6	35.7	36.9	43.1	37.7	42.3	28.9	33.9	26.2
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	3.0							3.0	.0	1.3	2.5	3.2	3.8	4.4	5.5	2.5	1.9
TOT OBS	1883	7412	4287	417	13	0	14012		9.1	2424	1276	1725	848	1840	1774	2157	1968
TOT PCT	13.4	52.9	30.6	3.0	.1	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	2.3	2.6	.5	*	.0		5.3	8.6	3.7	6.7	7.5	4.0
NE	1.0	.3	*	*	.0		1.4	5.4	.7	1.1	2.4	1.3
E	1.0	.5	*	.0	.0		1.5	5.5	.5	1.3	2.7	1.6
SE	2.3	1.4	.1	.0	.0		3.8	6.4	2.2	2.8	5.5	4.4
S	4.1	3.6	.1	*	.0		7.7	6.8	6.1	5.8	8.7	9.5
SW	5.9	5.6	.1	*	.0		11.7	6.9	12.1	7.6	10.0	15.3
W	9.3	18.4	2.4	.1	.0		30.3	9.4	36.9	30.0	22.5	31.4
NW	7.5	21.0	6.4	.4	.0		35.2	11.6	36.1	41.3	35.7	30.2
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	3.0						3.0	.0	1.7	3.4	4.9	2.2
TOT OBS	5104	7482	1343	83	0	14012		9.1	3700	2573	3614	4125
TOT PCT	36.4	53.4	9.6	.6	.0		100.0		100.0	100.0	100.0	100.0

PERIOD: (PRIMARY) 1943-1973
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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	1.7	7.1	30.5	36.6	3.9	.1	.0	10.1	100.0	3700
06&09	3.4	8.7	47.7	35.6	4.5	.1	.0	9.9	100.0	2573
12&15	4.9	15.7	53.8	23.2	2.3	.1	.0	7.9	100.0	3614
18&21	2.2	9.9	57.5	28.5	1.8	*	.0	8.7	100.0	4125
TOT	421	1462	7412	4287	417	13	0	9.1		14012
PCT	3.0	10.4	52.9	30.6	3.0	.1	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	1.2	.3	1.3	2.8		5.7
NE	.3	.1	.2	.8		5.8
E	.3	.1	.3	1.0		6.0
SE	.6	.2	.7	2.4		6.4
S	.8	.3	1.3	4.2		6.6
SW	1.7	.5	1.9	5.4		6.1
W	7.9	2.1	6.2	14.8		5.5
NW	9.7	2.9	7.0	17.9		5.4
VAR	.0	.0	.0	.0		.0
CALM	.4	.1	.5	1.8		6.3
TOT OBS	2033	575	1714	4508	8830	5.7
TOT PCT	23.0	6.5	19.4	51.1	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NM >4/8) AND OCCURRENCE OF NM <5/8 BY WIND DIRECTION

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NM <5/8 ANY HGT	TOTAL OBS
N	.2	*	.2	.7	2.1	.7	.1	*	*	*	1.7	
NE	*	.0	.1	.2	.4	.2	*	.0	*	.0	.4	
E	.1	.0	.1	.3	.7	.2	*	.0	.0	.0	.6	
SE	.1	*	.2	.6	1.7	.6	*	.0	*	*	.8	
S	.2	*	.3	.9	3.1	.8	.1	*	*	.0	1.3	
SW	.2	*	.3	1.2	3.8	1.4	.1	*	*	.0	2.5	
W	.5	*	.9	3.6	10.0	4.3	.4	.1	.1	*	10.9	
NW	.6	.1	1.5	4.9	11.6	4.2	.7	.1	.1	.1	13.7	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.1	.0	.1	.4	1.0	.5	*	*	.0	.0	.7	
TOT OBS	171	19	307	1125	3027	1131	131	32	19	8	2860	8830
TOT PCT	1.9	.2	3.5	12.7	34.3	12.8	1.5	.4	.2	.1	32.4	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NM >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM) * OR >10	* OR >5	OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >50YD	* OR >0
* OR >6500	.2	.3	.3	.3	.3	.3	.3	.3
* OR >5000	.5	.6	.7	.7	.7	.7	.7	.7
* OR >3500	1.5	2.1	2.2	2.2	2.2	2.2	2.2	2.2
* OR >2000	9.1	14.7	14.9	15.0	15.0	15.0	15.0	15.0
* OR >1000	24.9	47.4	49.1	49.2	49.3	49.3	49.3	49.3
* OR >600	29.2	58.4	61.6	61.9	62.0	62.0	62.0	62.0
* OR >300	29.9	60.6	64.6	65.3	65.4	65.5	65.5	65.5
* OR >150	29.9	60.7	64.8	65.4	65.6	65.7	65.7	65.7
* OR > 0	30.0	60.9	65.3	66.0	66.6	66.9	67.4	67.6
TOTAL	2650	5390	5776	5843	5896	5923	5963	5980

TOTAL NUMBER OF OBS: 8847

PCT FREQ NM <5/8: 32.4

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
12.8	5.1	7.7	3.7	2.8	3.1	7.9	8.1	47.1	1.7	9085

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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	*	*	.0	*	*	*	*	.0	*	.1	
	NO PCP	.1	*	*	.1	.1	.1	.3	.2	.0	.1	1.0	
	TOT %	.1	*	.1	.1	.1	.1	.3	.2	.0	.1	1.0	
1/2<1	PCP	*	.0	.0	.0	.0	*	*	*	.0	.0	*	
	NO PCP	.1	*	*	.1	.1	.1	.2	.2	.0	*	.8	
	TOT %	.1	*	*	.1	.1	.1	.2	.2	.0	*	.9	
1<2	PCP	*	*	.0	*	*	*	*	*	.0	.0	.1	
	NO PCP	.1	.1	.1	.1	.2	.3	.5	.4	.0	.1	1.9	
	TOT %	.2	.1	.1	.1	.3	.3	.5	.4	.0	.1	2.0	
2<5	PCP	*	.0	*	*	*	.1	.1	.1	.0	*	.4	
	NO PCP	.5	.1	.2	.4	.7	1.1	1.7	1.7	.0	.2	6.5	
	TOT %	.5	.1	.2	.4	.7	1.1	1.8	1.8	.0	.2	6.9	
5<10	PCP	*	*	*	.1	.1	.1	.2	.3	.0	*	.8	
	NO PCP	2.0	.6	.7	1.8	3.7	5.3	12.5	13.2	.0	1.3	41.0	
	TOT %	2.0	.6	.7	1.9	3.7	5.4	12.7	13.4	.0	1.3	41.8	
10+	PCP	*	*	*	*	*	*	.1	.1	.0	.0	.2	
	NO PCP	2.5	.5	.5	1.4	2.8	4.6	14.7	19.2	.0	1.0	47.2	
	TOT %	2.5	.5	.5	1.4	2.9	4.6	14.8	19.3	.0	1.0	47.5	
	TOT OBS												13479
	TOT PCT	5.4	1.4	1.6	3.9	7.8	11.7	30.2	35.3	.0	2.7	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	*	*	*	*	*	*	*	.1	.0	.1	.3	
	4-10	.1	*	*	*	.1	.1	.2	.1	.0		.6	
	11-21	*	.0	.0	*	*	*	.1	.1	.0		.2	
	22+	.0	.0	.0	.0	.0	.0	*	*	.0		*	
	TOT %	.1	*	*	.1	.1	.1	.3	.3	.0	.1	1.2	
1/2<1	0-3	*	*	*	*	.1	*	*	*	.0	*	.3	
	4-10	.1	*	*	.1	.1	.1	.2	.1	.0		.6	
	11-21	*	.0	.0	*	*	*	*	.1	.0		.1	
	22+	.0	.0	.0	.0	.0	.0	*	*	.0		*	
	TOT %	.1	*	*	.1	.2	.1	.2	.2	.0	*	1.0	
1<2	0-3	.1	*	*	*	*	.1	.1	.1	.0	.1	.6	
	4-10	.1	.1	*	.1	.2	.3	.4	.3	.0		1.5	
	11-21	*	*	*	*	*	*	.1	.1	.0		.3	
	22+	.0	.0	.0	.0	.0	.0	*	*	.0		*	
	TOT %	.2	.1	.1	.1	.3	.4	.6	.5	.0	.1	2.3	
2<5	0-3	.2	*	*	.1	.1	.3	.3	.3	.0	.3	1.6	
	4-10	.2	.1	.1	.2	.5	.8	1.3	1.1	.0		4.3	
	11-21	.1	*	*	.1	.1	.1	.3	.6	.0		1.2	
	22+	.0	.0	.0	.0	.0	*	*	*	.0		.1	
	TOT %	.5	.1	.2	.4	.7	1.2	1.9	1.9	.0	.3	7.2	
5<10	0-3	.4	.2	.2	.4	.6	.8	1.2	.8	.0	1.3	6.0	
	4-10	1.2	.3	.4	1.2	2.6	3.7	7.2	6.0	.0		22.6	
	11-21	.4	.1	.1	.2	.4	.7	4.0	5.7	.0		11.6	
	22+	*	.0	*	*	*	.0	.2	.6	.0		.9	
	TOT %	2.0	.6	.7	1.8	3.7	5.3	12.5	13.2	.0	1.3	41.1	
10+	0-3	.2	.2	.2	.3	.4	.5	.9	.6	.0	1.1	4.5	
	4-10	1.3	.3	.3	.9	2.0	3.3	7.7	7.6	.0		23.4	
	11-21	.8	.1	*	.2	.4	.8	5.7	9.2	.0		17.2	
	22+	.1	*	.0	*	*	*	.4	1.6	.0		2.2	
	TOT %	2.5	.5	.5	1.4	2.8	4.6	14.7	19.2	.0	1.1	47.3	
	TOT OBS												13848
	TOT PCT	5.3	1.4	1.5	3.9	7.7	11.7	30.3	35.3	.0	2.9	100.0	

JUNE

PERIOD: (PRIMARY) 1943-1973
(OVER-ALL) 1889-1973

AREA 0032 SAN DIEGO
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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET,NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00E03	1.3	.3	3.0	10.2	29.9	9.7	1.4	.4	.3	*	56.5	43.5	2177
06E09	2.2	.1	3.1	10.7	31.9	12.0	1.1	.2	*	.1	61.5	38.5	2065
12E15	2.5	.2	3.9	15.3	39.0	15.9	1.4	.1	.2	.2	78.9	21.1	2157
18E21	1.8	.2	3.7	14.1	35.3	13.2	2.0	.6	.3	.0	71.3	28.7	2509
TOT	173	19	308	1128	3036	1134	133	32	19	8	5990	2918	8908
PCT	1.9	.2	3.5	12.7	34.1	12.7	1.5	.4	.2	.1	67.2	32.8	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00E03	.8	.7	1.8	6.0	40.0	50.8	3674
06E09	1.2	.7	.8	4.7	40.4	52.1	3555
12E15	1.9	1.9	3.6	8.6	41.8	42.3	3590
18E21	.8	.8	2.8	8.6	41.5	45.4	4097
TOT	163	145	326	1001	5703	6578	13916
PCT	1.2	1.0	2.3	7.2	41.0	47.3	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET,NH >4/8),BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00E03	1.2	4.5	16.6	41.0	42.4	2158
06E09	2.2	5.5	18.2	43.8	38.0	2052
12E15	2.4	6.9	24.7	54.9	20.5	2145
18E21	1.8	6.0	23.3	49.4	27.3	2492
TOT	169	510	1843	4190	2814	8847
PCT	1.9	5.8	20.8	47.4	31.8	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
80/84	.0	*	.0	*	*	.0	.0	.0	4	*
75/79	.0	.0	.0	.1	.1	*	*	.0	20	.2
70/74	.0	*	*	.3	1.0	.9	.3	.1	287	2.6
65/69	.0	*	*	.4	2.4	6.5	5.5	2.2	1886	16.9
60/64	.0	.0	.1	.3	3.6	15.9	27.1	10.0	6359	57.0
55/59	.0	.0	.0	*	.4	4.1	11.6	6.9	2578	23.1
50/54	.0	.0	.0	.0	*	.0	.1	.1	27	.2
TOTAL	0	4	10	117	831	3059	4984	2156	11161	100.0
PCT	.0	*	.1	1.0	7.4	27.4	44.7	19.3		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.0	.0	*	*	*	*	.0	.0
*	.0	*	*	*	*	*	.1	.0	*
.2	.1	*	.1	.2	.3	.9	.8	.0	*
.8	.2	.3	.5	1.2	2.6	6.0	4.8	.0	.5
3.0	.8	.9	2.7	5.4	7.7	16.1	18.5	.0	1.8
1.3	.3	.3	.6	1.2	1.6	6.6	10.8	.0	.4
*	.0	.0	.0	*	*	*	.1	.0	*
5.3	1.4	1.5	3.9	8.1	12.3	29.7	35.0	.0	2.7

TABLE 15

MEANS,EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00E03	81	73	69	62	58	56	50	62.8	3712
06E09	81	68	65	60	56	55	52	60.4	2582
12E15	74	69	66	60	56	55	50	60.6	3632
18E21	79	72	69	63	58	56	50	63.0	4121
TOT	81	72	68	62	57	55	50	61.9	14047

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00E03	.0	1.2	9.3	29.9	44.5	15.1	81	3070
06E09	.0	.4	2.6	22.4	50.5	24.1	85	1887
12E15	.0	.3	4.4	22.8	46.4	26.1	85	2905
18E21	.0	2.3	11.1	31.8	40.1	14.7	80	3350
TOT	0	131	834	3065	5013	2169	82	11212

JUNE

PERIOD: (PRIMARY) 1943-1973
(OVER-ALL) 1889-1973

AREA 0032 SAN DIEGO
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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	49 52	53 56	57 60	61 64	65 68	69 72	73 76	77 80	81 84	TOT	W FOG	WO FOG
17/19	.0	.0	.0	.0	.0	*	*	*	.0	5	.0	*
14/16	.0	.0	.0	*	.1	*	*	.0	.0	18	.0	.1
11/13	.0	.0	.0	.1	.2	.1	.1	*	.0	62	*	.5
9/10	.0	.0	*	.1	.2	.2	.1	*	.0	75	*	.6
7/8	.0	.0	.2	.4	.5	.3	.1	*	.0	182	.1	1.4
6	.0	*	.3	.5	.4	.3	*	.0	.0	183	.1	1.4
5	.0	*	.3	.4	.9	.3	*	.0	.0	240	.1	1.8
4	.0	.0	.4	1.3	1.2	.3	*	.0	.0	395	.2	3.1
3	.0	*	.5	1.7	1.7	.4	*	.0	.0	515	.3	3.9
2	.0	.1	1.2	3.7	1.7	.4	*	.0	.0	859	.6	6.5
1	.0	.2	1.2	4.2	1.8	.2	*	.0	.0	933	.5	7.2
0	.0	.2	2.9	6.2	1.4	.1	*	.0	*	1315	.6	10.2
-1	.0	.3	3.7	6.0	1.3	.1	*	.0	.0	1394	.7	10.8
-2	*	.4	5.7	6.0	1.0	.1	.0	.0	.0	1614	.9	12.3
-3	*	.4	4.6	4.8	.9	*	.0	.0	.0	1307	.9	9.9
-4	*	.6	5.3	3.0	.5	.1	.0	.0	.0	1160	.7	8.8
-5	*	.4	3.4	2.1	.4	*	.0	.0	.0	770	.6	5.7
-6	*	.3	2.2	1.5	.2	*	.0	.0	.0	513	.4	3.8
-7/-8	*	.4	1.9	1.4	.2	.0	.0	.0	.0	472	.3	3.6
-9/-10	.0	.1	.5	.4	.1	.0	.0	.0	.0	126	.1	.9
-11/-13	*	*	.2	.1	*	.0	.0	.0	.0	36	*	.3
-14/-16	.0	*	*	*	*	.0	.0	.0	.0	5	*	*
-17/-19	.0	.0	*	.0	.0	.0	.0	.0	.0	1	.0	*
-20/-22	.0	.0	*	.0	.0	.0	.0	.0	.0	1	.0	*
TOTAL	11 430		4192 5341		1776	361	63	6	1	12181	871	11310
PCT	.1	3.5	34.4	43.8	14.6	3.0	.5	*	*	100.0	7.2	92.8

PERIOD: (OVER-ALL) 1963-1973

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	.9	.0	.0	.0	.0	1.2
1-2	.3	1.6	.7	.0	.0	.0	2.6
3-4	.0	.2	.6	.1	.0	.0	.9
5-6	.0	.1	.1	*	.0	.0	.2
7	.0	*	.1	.1	.0	.0	.2
8-9	.0	.0	*	.0	.0	.0	*
10-11	.0	.0	*	*	.0	.0	.1
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.6	2.9	1.5	.2	.0	.0	5.2

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	.3	.0	.0	.0	.0	.5
1-2	.0	.5	.1	.0	.0	.0	.6
3-4	.0	.1	.1	.0	.0	.0	.2
5-6	.0	*	.0	.0	.0	.0	*
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	.8	.1	.0	.0	.0	1.1

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.4	.0	.0	.0	.0	.5
1-2	.1	.3	.1	.0	.0	.0	.5
3-4	.0	*	*	.0	.0	.0	.1
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	.8	.1	.0	.0	.0	1.1

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.4	1.1	.1	.0	.0	.0	1.6
1-2	.2	1.8	.3	.0	.0	.0	2.3
3-4	*	.1	.1	.0	.0	.0	.3
5-6	.0	*	.0	.0	.0	.0	*
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.7	3.1	.5	.0	.0	.0	4.2

PERIOD: (OVER-ALL) 1963-1973 JUNE AREA 0032 SAN DIEGO

TABLE 18 (CONT) 32.6N 118.0W

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

	S							SW						
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.4	2.1	*	.0	.0	.0	2.5	.5	2.5	.1	.0	.0	.0	3.1
1-2	.5	2.4	.6	.0	.0	.0	3.4	.4	4.1	.9	.0	.0	.0	5.4
3-4	.1	.2	.2	.0	.0	.0	.5	*	.9	.3	.0	.0	.0	1.2
5-6	.0	.0	*	.0	.0	.0	*	.0	.1	.1	.0	.0	.0	.2
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.0	4.7	.8	.0	.0	.0	6.4	.9	7.6	1.4	.0	.0	.0	9.9

	W							NW							TOTAL
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	PCT
<1	.6	3.8	.5	.0	.0	.0	4.9	.8	3.3	.2	.0	.0	.0	4.3	
1-2	.8	9.8	6.2	.0	.0	.0	16.9	.6	8.3	6.2	.0	.0	.0	15.2	
3-4	.2	2.9	4.0	.2	.0	.0	7.4	*	3.0	6.8	.7	.0	.0	10.6	
5-6	.1	.3	.5	.1	.0	.0	1.0	*	.7	2.8	.6	.0	.0	4.0	
7	.0	.2	.3	.1	.0	.0	.5	.0	.4	1.3	.5	.0	.0	2.2	
8-9	.0	*	.2	.1	.0	.0	.3	.0	.1	.4	.3	.0	.0	.9	
10-11	.0	.0	*	.1	*	.0	.2	.0	.0	.2	.2	*	.0	.4	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	.0	.0	.1	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	.0	.0	*	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	1.7	17.1	11.8	.6	*	.0	31.2	1.5	15.8	17.9	2.4	*	.0	37.6	97.0

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	6.4	14.4	.9	.0	.0	.0	21.7	
1-2	3.0	28.8	15.2	.0	.0	.0	47.0	
3-4	.4	7.5	12.1	1.1	.0	.0	21.1	
5-6	.1	1.2	3.4	.7	.0	.0	5.5	
7	.0	.6	1.6	.6	.0	.0	2.8	
8-9	.0	.1	.7	.4	.0	.0	1.2	
10-11	.0	.0	.2	.3	.1	.0	.6	
12	.0	.0	.1	.1	.0	.0	.1	
13-16	.0	.0	.0	*	.0	.0	*	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
								2992
TOT PCT	9.8	52.7	34.3	3.2	.1	.0	100.0	

PERIOD: (OVER-ALL) 1949-1973 TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	3.3	29.2	22.5	5.1	2.0	.4	.2	*	*	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	4421	3
6-7	.1	3.1	7.2	3.5	2.1	.9	.4	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1238	4
8-9	.2	1.9	2.2	1.3	1.0	.4	.2	.1	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	515	4
10-11	.0	.7	.8	.3	.3	.3	.2	.1	.1	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	186	5
12-13	.0	.0	.3	.2	.1	.1	.1	*	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	47	6
>13	.0	.0	.0	.1	*	.0	.0	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	9	7
INDET	6.1	2.0	.7	.2	.1	*	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	641	1
TOTAL	679	2597	2373	752	391	150	72	25	16	1	1	0	0	0	0	0	0	0	0	7057	3
PCT	9.6	36.8	33.6	10.7	5.5	2.1	1.0	.4	.2	*	*	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1944-1973
(OVER-ALL) 1884-1973

AREA 0032 SAN DIEGO
32.6N 118.0W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA				
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	.0	.0	.7	.0	.0	.0	.0	.7	.2	.2	10.3	.2	12.8		.1	75.5
NE	.0	.0	.3	.0	.0	.0	.0	.3	.3	.0	12.1	.0	13.0		.0	74.3
E	.6	.0	1.2	.0	.0	.0	.0	1.8	.0	.3	14.1	.7	14.8		.0	68.2
SE	.0	.0	.3	.0	.0	.0	.0	.3	.2	.2	11.0	.5	19.3		.0	68.5
S	.1	.0	.5	.0	.0	.0	.0	.6	.4	.2	8.7	.2	17.7		.0	72.3
SW	.2	*	.4	.0	.0	.0	.0	.6	.2	.4	8.7	.3	17.9		.0	72.0
W	.1	.1	.2	.0	.0	.0	.0	.4	.3	.2	6.5	.1	11.3		.0	81.3
NW	.1	.1	.6	.0	.0	.0	.0	.7	.2	.1	6.8	.2	10.8		*	81.3
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	.0
CALM	.0	.6	.6	.0	.0	.0	.3	1.4	.3	.0	15.4	.3	17.3		.0	65.4
TOT PCT	.1	.1	.5	.0	.0	.0	*	.6	.2	.1	7.7	.2	12.6		*	78.5
TOT OBS: 12093																

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA				
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00&03	.1	.0	.1	.0	.0	.0	.0	.2	.1	*	3.6	*	11.4	*		84.6
06&09	*	.1	.6	.0	.0	.0	.0	.7	.2	.3	6.8	.4	7.7	.1		83.8
12&15	.2	.1	.9	.0	.0	.0	*	1.3	.2	.3	11.3	.2	12.6	.0		74.2
18&21	*	.1	.3	.0	.0	.0	.0	.4	.4	*	8.9	.2	16.5	.0		73.6
TOT PCT	.1	.1	.5	.0	.0	.0	*	.6	.2	.1	7.7	.2	12.6	*		78.5
TOT OBS: 12158																

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	1.1	3.6	1.6	.1	.0	.0		6.5	8.3	3.2	5.2	7.9	6.3	8.0	10.8	7.7	3.5
NE	.4	.7	.1	*	.0	.0		1.3	5.5	.5	.6	1.1	1.0	1.2	2.9	1.9	.9
E	.4	.8	.2	.0	.0	.0		1.4	5.6	.5	.5	1.1	.6	1.9	3.2	2.0	1.0
SE	.5	1.5	.3	*	.0	.0		2.2	6.4	.7	1.2	1.6	1.4	2.8	3.9	3.4	2.4
S	1.0	4.1	.7	*	.0	.0		5.8	6.6	4.2	3.9	4.2	4.0	3.5	9.5	8.1	7.9
SW	1.7	6.4	1.3	*	.0	.0		9.4	6.8	9.9	8.9	5.7	8.7	5.8	11.2	10.0	13.6
W	2.4	17.8	9.7	.4	.0	.0		30.2	9.2	38.6	34.7	28.2	32.9	23.2	20.5	25.5	37.9
NW	2.0	19.1	17.6	1.3	*	.0		39.9	10.9	41.6	42.9	47.0	41.5	48.1	32.4	36.9	31.0
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	3.3							3.3	.0	.9	2.0	3.2	3.6	5.5	5.8	4.4	1.8
TOT OBS	1613	6799	3957	231	1	0	12601		9.0	2222	1084	1343	809	1646	1326	1008	1763
TOT PCT	12.8	54.0	31.4	1.8	*	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	2.9	3.1	.5	*	.0		6.5	8.3	3.9	7.3	9.3	5.8
NE	.9	.3	*	*	.0		1.3	5.5	.5	1.1	2.0	1.4
E	1.0	.4	*	*	.0		1.4	5.6	.5	.9	2.5	1.5
SE	1.3	.9	*	*	.0		2.2	6.4	.9	1.5	3.3	2.9
S	3.2	2.7	*	*	.0		5.8	6.6	4.1	4.2	6.3	8.0
SW	5.1	4.2	.1	*	.0		9.4	6.8	9.6	6.7	8.4	11.7
W	9.8	18.3	2.1	*	.0		30.2	9.2	37.3	29.8	21.9	31.3
NW	8.4	25.9	5.4	.2	.0		39.9	10.9	42.0	48.1	40.5	36.1
VAR	.0	.0	.0	.0	.0				.0	.0	.0	.0
CALM	3.3						3.3	.0	1.2	3.4	5.6	3.2
TOT OBS	4505	7030	1037	29	0	12601		9.0	3306	2352	3172	3771
TOT PCT	35.8	55.8	8.2	.2	.0		100.0		100.0	100.0	100.0	100.0

JULY

PERIOD: (PRIMARY) 1944-1973
(OVER-ALL) 1884-1973

AREA 0032 SAN DIEGO
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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	1.2	5.0	48.9	41.6	3.2	*	.0	10.8	100.0	3306
06&09	3.4	8.0	51.4	33.1	2.2	.0	.0	9.4	100.0	2382
12&15	5.6	15.8	55.2	22.3	1.1	.0	.0	7.4	100.0	3172
18&21	3.2	9.1	56.9	27.8	1.0	.0	.0	8.8	100.0	3771
TOT	418	1196	6798	3957	231	1	0	9.0		12601
PCT	3.3	9.5	53.9	31.4	1.8	*	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	1.4	.5	1.6	3.5		5.8
NE	.2	.1	.2	.6		5.9
E	.3	.1	.3	.8		5.9
SE	.3	.1	.5	1.2		6.3
S	.7	.4	1.2	2.7		6.3
SW	1.8	.6	1.7	3.9		5.6
W	8.4	2.7	6.4	12.8		5.2
NW	9.8	3.0	9.4	19.5		5.5
VAR	.0	.0	.0	.0		.0
CALM	.6	.1	.8	1.8		6.1
TOT OBS	1971	633	1863	3927	8394	5.5
TOT PCT	23.5	7.5	22.2	46.8	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.2	*	.4	1.2	2.8	.6	.1	*	*	.1	2.0	
NE	*	*	*	.2	.8	.1	*	.0	.0	*	.4	
E	*	.0	.1	.3	.5	.1	*	*	.0	.0	.4	
SE	*	.0	.1	.4	.8	.2	*	.0	*	*	.8	
S	.1	*	.1	.9	1.8	.3	.1	*	*	.1	1.4	
SW	.1	*	.3	1.4	2.7	.6	.1	*	*	*	2.7	
W	.3	.1	1.3	4.8	8.9	1.8	.3	.1	.1	.3	15.3	
NW	.7	.4	2.7	7.3	11.6	3.2	.3	.1	.1	.3	14.9	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	*	.1	.2	.8	1.3	.2	*	*	*	*	.9	
TOT OBS	131	48	437	1428	2543	604	85	23	29	66	2989	8394
TOT PCT	1.6	.6	5.2	17.1	30.3	7.2	1.0	.3	.3	.8	35.6	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM) * OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >50YD	* OR >0
* OR >6500	.6	1.1	1.1	1.1	1.1	1.1	1.1	1.1
* OR >5000	.7	1.3	1.4	1.4	1.4	1.4	1.4	1.4
* OR >3500	1.3	2.3	2.4	2.4	2.4	2.4	2.4	2.4
* OR >2000	5.3	9.3	9.6	9.6	9.6	9.6	9.6	9.6
* OR >1000	18.1	38.3	39.7	39.9	39.9	39.9	39.9	39.9
* OR >600	22.4	53.5	56.6	56.8	56.9	57.0	57.0	57.0
* OR >300	23.3	57.2	61.6	62.0	62.1	62.2	62.2	62.2
* OR >150	23.5	57.5	62.0	62.5	62.7	62.7	62.8	62.8
* OR > 0	23.7	57.9	62.6	63.2	63.7	63.9	64.2	64.3
TOTAL	1994	4876	5273	5328	5366	5383	5407	5422

TOTAL NUMBER OF OBS: 8428

PCT FREQ NH <5/8: 35.7

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
13.7	5.7	8.6	4.3	3.0	4.1	8.8	8.0	42.6	1.3	8686

JULY

PERIOD: (PRIMARY) 1944-1973
(OVER-ALL) 1884-1973

AREA 0032 SAN DIEGO
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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	PCP	*	.0	.0	*	*	*	*	*	.0	.0	.1	
<1/2	NO PCP	.1	*	*	*	.1	.1	.1	.2	.0	*	.7	
	TOT %	.1	*	*	*	.1	.1	.1	.3	.0	*	.8	
	PCP	*	*	*	.0	.0	.0	.0	*	.0	.0	*	
1/2<1	NO PCP	.1	*	*	*	.1	.1	.2	.3	.0	.1	.9	
	TOT %	.1	*	*	*	.1	.1	.2	.3	.0	.1	.9	
	PCP	*	.0	.0	.0	.0	.0	*	*	.0	*	.1	
1<2	NO PCP	.1	*	*	.1	.2	.2	.4	.5	.0	.1	1.5	
	TOT %	.1	*	*	.1	.2	.2	.4	.5	.0	.1	1.6	
	PCP	*	.0	*	.0	.0	*	*	.1	.0	*	.1	
2<5	NO PCP	.8	.1	.2	.3	.7	1.1	2.2	2.7	.0	.2	9.3	
	TOT %	.8	.1	.2	.3	.7	1.1	2.2	2.8	.0	.2	8.4	
	PCP	*	.0	*	*	*	*	.1	.1	.0	*	.3	
5<10	NO PCP	3.1	.6	.6	1.2	3.2	4.6	14.5	17.2	.0	1.5	46.5	
	TOT %	3.1	.6	.6	1.2	3.2	4.6	14.6	17.3	.0	1.5	46.8	
	PCP	*	.0	.0	.0	.0	*	*	*	.0	*	*	
10+	NO PCP	2.4	.4	.5	.6	1.7	3.2	13.1	18.7	.0	.9	41.5	
	TOT %	2.4	.4	.5	.6	1.7	3.2	13.1	18.7	.0	.9	41.5	
	TOT OBS												12094
	TOT PCT	6.5	1.3	1.4	2.2	5.9	9.4	30.5	39.9	.0	3.0	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	0-3	*	*	*	*	*	*	*	*	.0	*	.2	
<1/2	4-10	.1	*	*	*	*	.1	.1	.2	.0		.5	
	11-21	*	.0	.0	.0	*	*	*	.1	.0		.2	
	22+	.0	.0	.0	.0	.0	.0	*	*	.0		*	
	TOT %	.1	*	*	*	.1	.1	.2	.3	.0	*	.8	
	0-3	*	*	*	.0	*	.1	.1	.1	.0	.1	.3	
1/2<1	4-10	.1	*	*	*	.1	*	.1	.2	.0		.5	
	11-21	.0	.0	.0	.0	*	*	*	.1	.0		.2	
	22+	.0	.0	.0	.0	.0	.0	.0	*	.0		*	
	TOT %	.1	*	*	*	.1	.1	.2	.3	.0	.1	1.0	
	0-3	*	*	*	*	*	*	.1	.1	.0	.2	.4	
1<2	4-10	.1	*	*	*	.1	.1	.3	.3	.0		1.0	
	11-21	*	.0	.0	*	*	*	.1	.2	.0		.4	
	22+	.0	.0	.0	.0	.0	.0	*	*	.0		*	
	TOT %	.1	*	*	.1	.2	.2	.4	.6	.0	.2	1.9	
	0-3	.3	.1	.1	.1	.1	.3	.4	.4	.0	.3	2.0	
2<5	4-10	.4	.1	.1	.2	.5	.8	1.5	1.7	.0		5.0	
	11-21	.2	*	*	*	.1	.1	.3	.8	.0		1.6	
	22+	*	.0	.0	.0	.0	.0	.0	.1	.0		.1	
	TOT %	.8	.2	.2	.3	.7	1.2	2.2	2.9	.0	.3	8.7	
	0-3	.5	.2	.2	.2	.5	.9	1.0	.8	.0	1.6	5.9	
5<10	4-10	1.8	.4	.4	.8	2.2	3.0	8.7	8.5	.0		25.9	
	11-21	.7	.1	.1	.2	.4	.6	4.4	7.2	.0		13.5	
	22+	*	.0	.0	*	.0	*	.2	.5	.0		.7	
	TOT %	3.0	.6	.7	1.2	3.1	4.5	14.3	17.0	.0	1.6	46.0	
	0-3	.2	.1	.1	.1	.3	.5	.8	.6	.0	1.1	3.9	
10+	4-10	1.3	.2	.3	.5	1.2	2.3	7.1	8.1	.0		21.0	
	11-21	.8	*	.1	.1	.2	.5	4.9	9.1	.0		15.7	
	22+	.1	*	.0	.0	*	*	.2	.7	.0		1.0	
	TOT %	2.3	.4	.5	.6	1.7	3.3	13.0	18.6	.0	1.1	41.5	
	TOT OBS												12438
	TOT PCT	6.5	1.3	1.4	2.2	5.9	9.4	30.3	39.8	.0	3.3	100.0	

PERIOD: (PRIMARY) 1944-1973
(OVER-ALL) 1884-1973

AREA 0032 SAN DIEGO
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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET,NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00&03	.5	.5	4.3	13.4	25.5	6.6	1.0	*	.4	1.0	53.4	46.6	2093
06&09	1.8	.5	5.3	15.6	26.7	7.1	.7	.2	.3	.5	58.7	41.3	1936
12&15	2.5	.9	6.5	20.9	34.2	8.0	1.2	.5	.3	.6	75.8	24.2	2001
18&21	1.5	.4	4.7	17.9	33.3	6.9	1.1	.3	.3	1.0	67.4	32.6	2457
TOT	132	48	439	1441	2552	608	86	23	28	68	5425	3062	8487
PCT	1.6	.6	5.2	17.0	30.1	7.2	1.0	.3	.3	.8	63.9	36.1	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00&03	.2	.5	1.1	6.8	45.0	46.3	3272
06&09	1.1	.4	.6	4.5	47.7	45.7	2326
12&15	1.5	2.2	3.0	11.3	45.4	36.5	3143
18&21	.6	.9	2.3	10.8	46.3	39.1	3765
TOT	104	128	233	1093	5751	5197	12506
PCT	.8	1.0	1.9	8.7	46.0	41.6	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET,NH >4/8),BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	.5	5.4	20.7	34.2	45.1	2077
06&09	1.8	7.9	24.9	34.8	40.2	1924
12&15	2.6	10.5	34.6	42.9	22.6	1994
18&21	1.5	7.0	28.6	41.0	30.4	2433
TOT	133	644	2296	3232	2900	8428
PCT	1.6	7.6	27.2	38.3	34.4	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
85/89	.0	.0	*	*	.0	.0	.0	.0	2	*
80/84	.0	.0	*	.1	*	*	.0	.0	19	.2
75/79	.0	.0	*	.2	.4	.4	.1	*	123	1.2
70/74	.0	.0	*	.1	1.9	3.0	2.5	.8	845	8.3
65/69	.0	.0	*	.3	1.0	7.4	17.7	7.6	3445	34.0
60/64	.0	.0	.0	*	.6	6.3	28.2	12.8	4862	48.0
55/59	.0	.0	.0	.0	*	.3	3.7	4.2	834	8.2
50/54	.0	.0	.0	.0	.0	.0	*	*	5	*
TOTAL	0	0	6	78	405	1782	5291	2573	10135	100.0
PCT	.0	.0	.1	.8	4.0	17.6	52.2	25.4		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.0	.0	*	.0	.0	*	.0	.0
*	*	*	.0	*	*	*	.1	.0	.0
.1	*	.0	*	.1	.1	.4	.5	.0	.1
.4	.1	.1	.2	.6	1.1	2.6	3.0	.0	.2
2.2	.5	.5	1.0	2.7	4.1	10.6	11.3	.0	1.2
3.4	.6	.7	1.1	2.4	3.8	14.5	20.3	.0	1.2
.6	.1	.1	.1	.1	.4	2.0	4.8	.0	.1
.0	.0	.0	.0	.0	.0	.0	*	.0	.0
6.7	1.3	1.4	2.4	6.0	9.4	30.0	40.1	.0	2.8

TABLE 15

MEANS,EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00&03	84	76	72	65	60	58	55	65.2	3309
06&09	77	71	68	62	58	56	54	62.5	2352
12&15	86	78	69	63	58	56	52	63.1	3186
18&21	85	76	72	65	60	58	55	65.6	3788
TOT	86	75	71	64	59	56	52	64.3	12635

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00&03	.0	.9	5.9	21.1	52.8	19.3	83	2771
06&09	.0	.1	.7	9.1	55.7	34.4	87	1785
12&15	.0	.5	1.6	10.7	52.4	34.7	87	2553
18&21	.0	1.4	6.2	25.1	49.2	18.2	82	3082
TOT	0	84	407	1794	5099	2597	84	10191

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PERIOD: (PRIMARY) 1944-1973
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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	49 52	53 56	57 60	61 64	65 68	69 72	73 76	77 80	81 84	85 88	TOT	W FOG	WO FOG
20/22	.0	.0	.0	.0	.0	.0	.0	.0	*	.0	1	*	.0
17/19	.0	.0	.0	.0	.0	.0	.0	.0	*	*	2	.0	*
14/16	.0	.0	.0	.0	*	*	.1	.0	*	*	20	*	.1
11/13	.0	.0	.1	.3	.2	.1	.2	.1	.1	.0	115	.1	1.0
9/10	.0	.0	*	.1	.2	.3	.2	.1	*	.0	91	.1	.8
7/8	.0	.0	.0	.2	.7	.5	.3	.1	*	.0	188	.1	1.6
6	.0	.0	*	.1	.5	.5	.2	*	*	.0	151	.1	1.3
5	.0	.0	.1	.3	.9	.7	.2	*	*	.0	252	.1	2.2
4	.0	*	.1	.7	1.2	1.0	.2	*	.0	.0	360	.2	3.0
3	.0	*	.1	1.0	1.6	1.1	.2	*	.0	.0	441	.3	3.8
2	.0	.0	.4	2.0	2.5	1.2	.1	*	.0	.0	680	.6	5.6
1	.0	*	.5	2.6	3.2	1.3	.1	.0	.0	.0	844	.4	7.3
0	.0	*	1.5	4.0	3.8	1.2	.1	.0	.0	.0	1175	1.0	9.7
-1	.0	.1	1.2	4.9	3.9	.9	*	.0	.0	.0	1202	.7	10.3
-2	.0	.1	2.5	5.7	3.5	.4	.1	.0	.0	.0	1339	1.0	11.2
-3	.0	.1	2.0	5.3	3.0	.5	.1	.0	.0	.0	1210	.8	10.2
-4	.0	.1	2.5	4.5	1.7	.3	*	.0	.0	.0	1010	.8	8.4
-5	.0	.1	1.7	3.6	1.4	.1	*	.0	.0	.0	758	.6	6.3
-6	*	.1	1.6	2.3	.5	*	.0	.0	.0	.0	496	.4	4.1
-7/-8	.0	.1	1.8	2.1	.4	*	*	.0	.0	.0	478	.4	4.0
-9/-10	.0	.1	.5	.4	.1	.0	.0	.0	.0	.0	118	.1	1.0
-11/-13	.0	*	.1	.1	.1	.0	.0	.0	.0	.0	37	*	.3
-14/-16	.0	.0	*	*	*	.0	.0	.0	.0	.0	7	*	*
-17/-19	.0	.0	.0	*	.0	.0	.0	.0	.0	.0	2	*	.0
TOTAL	1	1831		3238		230		14			843		10132
		97	4406		1115		40		3	10975			
PCT	*	.9	16.7	40.1	29.5	10.2	2.1	.4	.1	*	100.0	7.7	92.3

PERIOD: (OVER-ALL) 1963-1973

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.7	1.4	.0	.0	.0	.0	2.1
1-2	.2	1.9	.9	.0	.0	.0	3.0
3-4	*	.6	.8	*	.0	.0	1.5
5-6	.0	.1	.2	.1	.0	.0	.4
7	.0	*	.1	.1	.0	.0	.2
8-9	.0	.0	*	*	.0	.0	.1
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.0	4.0	2.0	.3	.0	.0	7.2

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	.3	.0	.0	.0	.0	.5
1-2	.1	.3	*	.0	.0	.0	.4
3-4	.0	.1	.1	*	.0	.0	.2
5-6	.0	.0	*	.0	.0	.0	*
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	.7	.1	*	.0	.0	1.2

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.4	.3	*	.0	.0	.0	.7
1-2	.1	.6	.1	.0	.0	.0	.7
3-4	*	*	.1	.0	.0	.0	.1
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.5	.9	.2	.0	.0	.0	1.6

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	.6	.0	.0	.0	.0	.8
1-2	.2	.6	.1	.0	.0	.0	1.0
3-4	.0	.1	*	.0	.0	.0	.1
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.4	1.3	.2	.0	.0	.0	1.9

PERIOD: (OVER-ALL) 1963-1973

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TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

	S							SW						
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.4	1.5	.0	.0	.0	.0	1.9	.7	2.4	.2	.0	.0	.0	3.2
1-2	.2	1.2	.1	.0	.0	.0	1.5	.3	2.0	.5	.0	.0	.0	2.8
3-4	.0	.1	.2	.0	.0	.0	.3	.1	.6	.3	.0	.0	.0	1.0
5-6	.0	*	.0	.0	.0	.0	*	.0	.1	.0	.0	.0	.0	.1
7	.0	*	.0	.0	.0	.0	*	.0	.1	.1	.0	.0	.0	.1
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.6	2.9	.2	.0	.0	.0	3.8	1.0	5.1	1.0	.0	.0	.0	7.2

	W							NW							TOTAL
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	PCT
<1	.6	3.7	.4	.0	.0	.0	4.8	.8	3.4	.2	.0	.0	.0	4.2	
1-2	.9	8.3	5.2	.0	.0	.0	14.4	.4	9.9	8.7	.0	.0	.0	18.9	
3-4	.1	3.0	3.9	.1	.0	.0	7.1	.2	4.8	9.6	.7	.0	.0	15.3	
5-6	*	.4	.6	.1	.0	.0	1.2	*	1.0	3.1	.5	.0	.0	4.5	
7	.0	.1	.1	*	.0	.0	.2	.0	.2	1.6	.8	.0	.0	2.5	
8-9	.0	.0	*	.0	.0	.0	*	.0	*	.1	.1	.0	.0	.3	
10-11	.0	.0	*	*	.0	.0	.1	.0	.0	.1	*	.0	.0	.2	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	.0	.0	.0	*	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	1.6	15.5	10.3	.3	.0	.0	27.7	1.4	19.3	23.4	2.1	.0	.0	46.1	96.7

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	7.2	13.7	.8	.0	.0	.0	21.6	
1-2	2.6	24.7	15.6	.0	.0	.0	42.8	
3-4	.4	9.4	14.8	.9	.0	.0	25.6	
5-6	.1	1.5	4.0	.7	.0	.0	6.2	
7	.0	.4	1.8	.9	.0	.0	3.0	
8-9	.0	*	.2	.1	.0	.0	.4	
10-11	.0	.0	.2	.1	.0	.0	.2	
12	.0	.0	*	.0	.0	.0	*	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	10.3	49.7	37.4	2.7	.0	.0	100.0	3345

PERIOD: (OVER-ALL) 1949-1973

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	3.6	29.5	24.1	5.1	1.7	.3	.1	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4231	3
6-7	.1	4.4	7.4	3.2	1.4	.4	.1	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1130	4
8-9	.1	1.9	2.8	1.1	.7	.4	*	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	464	4
10-11	.0	.4	.5	.3	.2	.1	.1	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	101	4
12-13	.0	.0	.3	.1	.1	*	*	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	33	5
>13	.0	*	.0	*	*	.0	*	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7	7
INDET	7.6	1.1	.3	.1	.1	*	*	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	607	1
TOTAL	746	2451	2324	654	281	84	22	9	2	0	0	0	0	0	0	0	0	0	0	6573	3
PCT	11.3	37.3	35.4	9.9	4.3	1.3	.3	.1	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

AUGUST

PERIOD: (PRIMARY) 1944-1973
(OVER-ALL) 1884-1973

AREA 0032 SAN DIEGO
32.6N 118.0W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA				
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	.1	.1	.3	.0	.0	.0	.0	.4	.1	.1	7.3	*	14.4	.1		77.6
NE	.7	.0	1.0	.0	.0	.0	.0	1.0	.0	.5	9.6	.2	14.0	.0		74.7
E	.3	.0	.8	.0	.0	.0	.0	.8	.0	.0	14.5	.4	13.7	.0		70.7
SE	.0	.0	.1	.0	.0	.0	.0	.1	.3	.4	5.2	.4	21.2	.0		72.4
S	.1	.1	.5	.0	.0	.0	.0	.8	.2	.1	6.4	.3	13.8	.0		78.3
SW	.1	.0	.4	.0	.0	.0	.0	.5	*	.2	6.2	.1	15.7	.0		77.3
W	.1	*	.2	.0	.0	.0	*	.3	.1	.1	5.2	*	11.2	.0		83.2
NW	.1	*	.4	.0	.0	.0	.0	.4	*	*	4.7	.1	11.0	*		83.7
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0
CALM	.2	.0	.4	.0	.0	.0	.0	.6	.0	.0	15.0	.2	19.4	.0		64.8
TOT PCT	.1	*	.3	.0	.0	.0	*	.4	.1	.1	5.9	.1	12.5	*		81.0
TOT OBS: 14457																

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA				
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00&03	.0	.1	.1	.0	.0	.0	*	.2	*	.1	2.7	*	12.2	.0		84.9
06&09	.1	*	.2	.0	.0	.0	.0	.3	.1	.1	5.6	.1	8.3	.0		85.4
12&15	.2	*	.7	.0	.0	.0	.0	.8	.1	.2	8.7	.1	12.4	*		77.8
18&21	.1	*	.3	.0	.0	.0	.0	.3	.1	.0	6.4	.2	16.2	.0		76.8
TOT PCT	.1	*	.3	.0	.0	.0	*	.4	.1	.1	5.8	.1	12.7	*		80.8
TOT OBS: 14584																

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	1.1	3.9	2.0	.1	*	.0		7.1	8.5	3.7	5.7	8.3	7.3	9.2	11.9	7.4	4.2
NE	.4	.9	.1	*	.0	.0		1.4	5.4	.5	1.2	1.6	1.8	1.5	3.4	1.4	.5
E	.4	.9	.1	.0	.0	.0		1.4	5.4	.4	.8	1.5	1.5	1.5	3.1	1.6	.9
SE	.7	1.5	.2	*	.0	.0		2.4	5.6	.8	1.8	2.1	2.3	2.4	4.5	4.0	1.7
S	1.3	3.7	.7	.0	*	.0		5.7	6.3	4.0	4.1	4.1	4.5	4.7	8.7	6.9	7.5
SW	1.6	6.7	1.1	*	.0	.0		9.4	6.7	9.6	9.0	6.8	7.5	6.5	9.5	10.8	13.7
W	2.6	16.8	9.7	.3	.0	.0		29.5	9.2	38.4	33.1	27.2	30.6	24.8	18.6	25.5	35.9
NW	2.4	18.3	17.5	1.1	.0	.0		39.3	10.7	41.5	41.8	44.4	38.8	42.5	34.4	37.5	34.4
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	3.9							3.9	.0	1.1	2.4	4.1	5.6	7.0	5.9	5.0	1.3
TOT OBS	2154	7876	4675	235	2	0	14942		8.8	2590	1391	1800	968	1941	1834	2328	2090
TOT PCT	14.4	52.7	31.3	1.6	*	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	2.9	3.6	.5	*	.0		7.1	8.5	4.4	8.0	10.5	5.9
NE	1.0	.3	*	*	.0		1.4	5.4	.7	1.7	2.4	1.0
E	1.0	.4	*	.0	.0		1.4	5.4	.8	1.5	2.3	1.3
SE	1.7	.7	*	.0	.0		2.4	5.6	1.2	2.2	3.4	2.9
S	3.3	2.3	.1	*	.0		5.7	6.3	4.1	4.2	6.6	7.1
SW	5.1	4.1	.2	*	.0		9.4	6.7	9.4	7.0	7.9	12.1
W	9.4	18.1	1.9	*	.0		29.5	9.2	36.6	28.4	21.8	30.4
NW	8.8	25.3	5.1	.1	.0		39.3	10.7	41.6	42.4	38.5	36.0
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	3.9						3.9	.0	1.6	4.6	6.5	3.2
TOT OBS	5533	8210	1167	32	0	14942		8.8	3981	2768	3775	4418
TOT PCT	37.0	54.9	7.8	.2	.0		100.0		100.0	100.0	100.0	100.0

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PERIOD: (PRIMARY) 1944-1973
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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	1.6	6.3	48.8	40.5	2.8	*	.0	10.3	100.0	3981
06&09	4.6	9.4	52.6	31.8	1.7	.0	.0	8.9	100.0	2768
12&15	6.5	16.5	53.7	22.3	1.0	.0	.0	7.3	100.0	3775
18&21	3.2	10.1	55.5	30.3	.9	*	.0	8.6	100.0	4418
TOT	577	1577	7876	4675	235	2	0	8.8		14942
PCT	3.9	10.6	52.7	31.3	1.6	*	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	2.0	.7	1.7	3.0		5.2
NE	.3	.1	.3	.6		5.6
E	.4	.1	.3	.6		5.2
SE	.4	.2	.6	1.2		5.9
S	.9	.5	1.5	2.1		5.7
SW	2.1	.8	2.5	3.4		5.3
W	8.9	3.1	7.6	10.6		5.0
NW	11.4	3.5	9.4	15.2		5.1
VAR	.0	.0	.0	.0		.0
CALM	1.0	.2	.8	1.8		5.4
TOT OBS	2565	859	2302	3586	9312	5.1
TOT PCT	27.5	9.2	24.7	38.5	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.1	*	.2	1.3	2.1	.6	.1	*	*	.1	2.9	
NE	*	*	*	.2	.5	.1	*	*	.0	*	.4	
E	*	.0	*	.2	.4	.1	*	*	*	*	.5	
SE	*	*	.1	.4	1.0	.1	*	*	*	*	.7	
S	*	*	.1	.7	1.8	.4	.1	*	*	.1	1.7	
SW	.1	*	.2	1.1	2.9	.7	.1	*	*	.1	3.4	
W	.3	*	1.1	4.2	8.4	2.1	.4	.1	.1	.4	13.1	
NW	.5	.2	1.7	6.5	10.4	2.7	.5	.1	.1	.4	16.4	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.2	*	.1	.6	1.2	.4	*	*	.0	*	1.3	
TOT OBS	129	35	347	1411	2671	674	120	28	28	93	3776	9312
TOT PCT	1.4	.4	3.7	15.2	28.7	7.2	1.3	.3	.3	1.0	40.5	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM) * OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >50YD	* OR >0
* OR >6500	.6	1.2	1.3	1.3	1.3	1.3	1.3	1.3
* OR >5000	.8	1.5	1.6	1.6	1.6	1.6	1.6	1.6
* OR >3500	1.6	2.8	2.9	2.9	2.9	2.9	2.9	2.9
* OR >2000	5.6	9.8	10.1	10.1	10.1	10.1	10.1	10.1
* OR >1000	18.0	37.4	38.7	38.7	38.8	38.8	38.8	38.8
* OR >600	22.5	50.5	53.6	53.8	53.9	53.9	53.9	53.9
* OR >300	23.1	53.1	57.1	57.5	57.7	57.7	57.7	57.7
* OR >150	23.3	53.3	57.4	57.9	58.0	58.0	58.0	58.0
* OR > 0	23.3	53.6	57.8	58.4	58.8	59.0	59.3	59.4
TOTAL	2185	5019	5413	5473	5506	5523	5554	5565

TOTAL NUMBER OF OBS: 9365

PCT FREQ NH <5/8: 40.6

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
14.8	7.4	9.9	4.9	3.7	4.2	10.0	8.6	35.5	1.1	9669

AUGUST

PERIOD: (PRIMARY) 1944-1973
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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	PCP	*	.0	.0	.0	*	*	*	*	.0	.0	*	
<1/2	NO PCP	*	*	*	*	.1	.1	.2	.2	.0	.1	.7	
	TOT %	*	*	*	*	.1	.1	.2	.2	.0	.1	.8	
	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	NO PCP	*	*	*	*	.1	.1	.2	.2	.0	.1	.7	
	TOT %	*	*	*	*	.1	.1	.2	.2	.0	.1	.7	
	PCP	.0	*	*	.0	*	*	*	*	.0	.0	*	
1<2	NO PCP	.1	*	*	*	.1	.2	.3	.4	.0	.1	1.4	
	TOT %	.1	*	*	*	.1	.2	.3	.5	.0	.1	1.5	
	PCP	*	*	.0	.0	*	*	*	.1	.0	*	.1	
2<5	NO PCP	.6	.1	.2	.2	.4	.8	1.8	2.5	.0	.4	7.0	
	TOT %	.6	.1	.2	.2	.5	.8	1.8	2.5	.0	.4	7.1	
	PCP	*	.0	*	*	*	*	*	.1	.0	*	.2	
5<10	NO PCP	3.2	.7	.6	1.3	3.2	4.6	13.7	16.7	.0	1.7	45.7	
	TOT %	3.2	.7	.6	1.3	3.2	4.7	13.8	16.8	.0	1.7	45.9	
	PCP	.0	.0	.0	.0	.0	*	*	*	.0	*	*	
10+	NO PCP	3.1	.5	.6	.8	1.8	3.6	13.4	19.0	.0	1.3	44.0	
	TOT %	3.1	.5	.6	.8	1.8	3.6	13.4	19.0	.0	1.3	44.1	
	TOT OBS												14444
	TOT PCT	7.1	1.4	1.4	2.4	5.7	9.4	29.6	39.3	.0	3.7	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	0-3	.0	*	*	*	*	*	*	*	.0	.1	.3	
<1/2	4-10	*	*	*	*	*	*	.1	.1	.0		.4	
	11-21	.0	.0	.0	.0	.0	*	*	.1	.0		.1	
	22+	.0	.0	.0	.0	.0	.0	.0	*	.0		*	
	TOT %	*	*	*	*	.1	.1	.2	.2	.0	.1	.8	
	0-3	*	*	*	*	*	*	*	*	.0	.1	.3	
1/2<1	4-10	*	*	*	*	*	*	.1	.2	.0		.4	
	11-21	*	.0	.0	.0	*	*	*	.1	.0		.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	*	*	*	*	.1	.1	.2	.3	.0	.1	.8	
	0-3	*	*	*	*	*	.1	.1	.1	.0	.2	.5	
1<2	4-10	.1	*	*	*	.1	.2	.2	.4	.0		1.0	
	11-21	*	.0	.0	.0	*	*	.1	.2	.0		.3	
	22+	.0	.0	.0	.0	.0	*	*	*	.0		*	
	TOT %	.2	*	*	.1	.1	.2	.4	.6	.0	.2	1.8	
	0-3	.2	*	.1	.1	.1	.2	.3	.4	.0	.4	1.7	
2<5	4-10	.4	.1	.1	.2	.3	.6	1.1	1.5	.0		4.3	
	11-21	.1	*	*	*	*	*	.4	.7	.0		1.3	
	22+	.0	.0	.0	.0	.0	.0	*	*	.0		.1	
	TOT %	.6	.1	.2	.2	.5	.8	1.9	2.6	.0	.4	7.3	
	0-3	.5	.2	.2	.4	.7	.9	1.3	1.1	.0	1.7	6.9	
5<10	4-10	1.8	.4	.3	.8	2.1	3.3	8.0	8.2	.0		24.9	
	11-21	.8	*	*	.1	.4	.5	4.1	7.0	.0		13.1	
	22+	*	.0	.0	*	.0	*	.1	.3	.0		.5	
	TOT %	3.2	.7	.6	1.3	3.2	4.6	13.6	16.6	.0	1.7	45.3	
	0-3	.4	.1	.1	.2	.4	.5	.9	.8	.0	1.3	4.7	
10+	4-10	1.6	.3	.4	.5	1.2	2.6	7.1	7.9	.0		21.6	
	11-21	1.0	*	*	*	.2	.5	5.1	9.6	.0		16.6	
	22+	.1	*	.0	.0	*	*	.2	.7	.0		1.0	
	TOT %	3.1	.5	.6	.8	1.8	3.6	13.4	18.9	.0	1.3	44.0	
	TOT OBS												14743
	TOT PCT	7.1	1.4	1.4	2.4	5.7	9.4	29.6	39.3	.0	3.8	100.0	

PERIOD: (PRIMARY) 1944-1973
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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET,NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00&03	.7	.3	2.9	12.4	23.7	6.0	.9	.2	.4	1.4	48.8	51.2	2336
06&09	1.2	.4	4.3	13.6	26.2	6.2	1.1	.3	.6	.9	54.7	45.3	2178
12&15	2.2	.6	4.1	18.5	34.4	8.6	1.7	.3	.1	.8	71.4	28.6	2290
18&21	1.3	.3	3.4	15.2	29.1	7.7	1.4	.4	.1	.9	59.7	40.3	2698
TOT	130	35	349	1419	2695	679	120	28	28	94	5577	3925	9502
PCT	1.4	.4	3.7	14.9	28.4	7.1	1.3	.3	.3	1.0	58.7	41.3	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00&03	.2	.5	1.4	6.7	44.2	46.9	3964
06&09	.5	.4	.9	4.4	44.7	49.1	2762
12&15	1.8	1.3	2.9	8.3	47.3	38.5	3745
18&21	.7	.8	2.0	9.2	45.0	42.4	4407
TOT	119	118	274	1104	6738	6525	14878
PCT	.8	.8	1.8	7.4	45.3	43.9	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET,NH >4/8),BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	.7	4.1	18.9	32.1	49.0	2297
06&09	1.2	6.1	21.1	34.6	44.3	2158
12&15	2.2	7.3	28.9	44.5	26.6	2260
18&21	1.4	5.5	24.5	38.2	37.3	2650
TOT	129	536	2190	3503	3672	9365
PCT	1.4	5.7	23.4	37.4	39.2	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
90/94	*	.0	.0	.0	.0	.0	.0	.0	1	*
85/89	.0	*	.0	.0	*	.0	.0	.0	3	*
80/84	.0	*	*	.1	.1	.1	*	*	40	.3
75/79	.0	.0	*	.2	.7	1.6	.4	.2	381	3.1
70/74	.0	*	*	.1	1.7	6.1	5.9	2.2	1974	16.1
65/69	.0	.0	*	.1	1.4	10.0	25.0	11.3	5881	47.8
60/64	.0	.0	.0	*	.5	3.0	16.4	11.0	3793	30.9
55/59	.0	.0	.0	.0	.0	*	.5	1.3	217	1.8
50/54	.0	.0	.0	.0	.0	.0	.0	*	1	*
TOTAL	1	4	12	67	546	2551	5923	3187	12291	100.0
PCT	*	*	.1	.5	4.4	20.8	48.2	25.9		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.0	.0	.0	.0	.0	*	.0	.0
.0	.0	.0	.0	.0	*	*	*	.0	.0
.0	*	*	.0	.1	*	.1	.1	.0	*
.2	*	.1	.1	.3	.3	.8	1.2	.0	*
1.0	.2	.2	.5	1.2	2.0	4.7	5.6	.0	.6
3.5	.8	.7	1.3	3.4	5.3	14.0	17.0	.0	1.9
2.3	.4	.4	.5	1.0	1.8	8.9	14.6	.0	1.0
.2	*	.0	*	*	*	.4	1.0	.0	*
.0	.0	.0	.0	.0	.0	.0	*	.0	.0
7.2	1.5	1.4	2.5	5.9	9.5	29.0	39.6	.0	3.6

TABLE 15

MEANS,EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00&03	88	78	74	67	61	59	57	67.2	3997
06&09	82	72	70	65	60	58	56	64.8	2793
12&15	86	73	71	65	60	58	54	65.1	3807
18&21	91	78	75	67	61	59	56	67.5	4438
TOT	91	77	73	66	60	59	54	66.3	15035

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00&03	.0	1.2	5.4	23.8	47.4	22.2	83	3403
06&09	.0	.2	1.7	12.0	52.4	33.8	86	2194
12&15	.0	.2	2.2	13.4	49.1	35.1	86	3110
18&21	*	.9	7.1	29.5	45.6	17.0	81	3701
TOT	1	83	551	2581	5976	3216	84	12408

PERIOD: (PRIMARY) 1944-1973
(OVER-ALL) 1884-1973

AREA 0032 SAN DIEGO
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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	53 56	57 60	61 64	65 68	69 72	73 76	77 80	81 84	85 88	TOT	W FOG	WO FOG
17/19	.0	.0	.0	.0	*	.0	*	*	*	5	.0	*
14/16	.0	.0	.0	.0	.1	*	*	*	*	18	.0	.1
11/13	.0	.0	*	*	.1	.2	.1	.1	.0	68	*	.5
9/10	.0	.0	.0	.2	.4	.2	.1	*	.0	118	.1	.8
7/8	.0	*	.1	.4	.7	.6	.2	*	.0	257	.1	1.9
6	.0	.0	*	.5	.5	.4	.1	*	.0	194	.1	1.4
5	.0	*	.1	.6	1.0	.7	.1	*	.0	304	.1	2.2
4	.0	*	.2	1.0	1.3	.5	.1	.0	.0	392	.2	2.8
3	.0	*	.2	1.5	1.5	.5	.1	*	.0	500	.2	3.7
2	*	*	.7	2.2	2.1	.4	*	.0	.0	688	.4	5.0
1	.0	.1	.9	3.4	2.4	.4	*	.0	.0	927	.3	6.9
0	*	.2	2.4	4.8	2.5	.2	*	.0	.0	1323	.5	9.8
-1	.0	.3	2.6	5.1	2.1	.2	*	.0	.0	1319	.5	9.7
-2	.0	.6	4.3	5.4	1.4	.1	*	.0	.0	1520	.7	11.1
-3	*	.6	3.9	5.3	1.3	.1	*	.0	.0	1445	.6	10.6
-4	*	1.1	4.6	3.8	.7	*	.0	.0	.0	1298	.6	9.5
-5	*	.7	3.3	3.4	.5	*	*	.0	.0	1030	.5	7.5
-6	*	.7	2.7	1.6	.2	.0	.0	.0	.0	664	.2	4.9
-7/-8	*	.6	2.5	1.3	.1	.0	.0	.0	.0	576	.3	4.2
-9/-10	.0	.3	.7	.3	*	.0	.0	.0	.0	172	.1	1.3
-11/-13	.0	.1	.1	*	*	.0	.0	.0	.0	46	*	.3
-14/-16	.0	.0	*	*	.0	.0	.0	.0	.0	3	.0	*
-17/-19	.0	.0	*	*	.0	.0	.0	.0	.0	5	.0	*
TOTAL	14	684	3782	5222	2445	580	119	23	3	12872	722	12150
PCT	.1	5.3	29.4	40.6	19.0	4.5	.9	.2	*	100.0	5.6	94.4

PERIOD: (OVER-ALL) 1963-1973

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.5	1.3	.1	.0	.0	.0	1.8
1-2	.3	2.1	1.0	.0	.0	.0	3.4
3-4	*	.6	.7	.1	.0	.0	1.4
5-6	.0	.1	.4	*	.0	.0	.5
7	.0	*	*	.0	.0	.0	.1
8-9	.0	.0	*	.0	.0	.0	*
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.8	4.1	2.3	.1	.0	.0	7.3

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	.3	.0	.0	.0	.0	.5
1-2	.1	.4	*	.0	.0	.0	.5
3-4	.0	*	*	.0	.0	.0	*
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	.8	.1	.0	.0	.0	1.3

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	.3	.0	.0	.0	.0	.5
1-2	.1	.4	.1	.0	.0	.0	.6
3-4	.0	.1	*	.0	.0	.0	.1
5-6	.0	*	.0	.0	.0	.0	*
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	.8	.1	.0	.0	.0	1.3

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.4	.7	*	.0	.0	.0	1.1
1-2	.3	.9	.2	.0	.0	.0	1.4
3-4	.1	.1	*	.0	.0	.0	.2
5-6	.0	*	*	*	.0	.0	*
7	.0	*	.0	.0	.0	.0	*
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.7	1.8	.3	*	.0	.0	2.8

PERIOD: (OVER-ALL) 1963-1973

AUGUST

TABLE 18 (CONT)

AREA 0032 SAN DIEGO
32.6N 118.0W

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

S

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	1.5	.1	.0	.0	.0	1.9
1-2	.3	2.0	.4	.0	.0	.0	2.7
3-4	.0	.1	.2	.0	.0	.0	.3
5-6	.0	*	*	.0	*	.0	.1
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.6	3.6	.7	.0	*	.0	5.0

SW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.8	2.4	.1	.0	.0	.0	3.3
1-2	.5	3.8	.4	.0	.0	.0	4.8
3-4	.0	.5	.2	*	.0	.0	.7
5-6	.0	.1	*	.0	.0	.0	.1
7	.0	*	*	.0	.0	.0	.1
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.3	6.8	.8	*	.0	.0	9.0

W

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.2	4.3	.3	.0	.0	.0	5.7
1-2	.7	9.2	5.1	.0	.0	.0	15.0
3-4	.2	3.1	3.1	.2	.0	.0	6.5
5-6	*	.5	.6	*	.0	.0	1.1
7	.0	*	.1	.1	.0	.0	.3
8-9	.0	.0	*	.0	.0	.0	*
10-11	.0	.0	.0	*	.0	.0	*
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	2.1	17.1	9.1	.3	.0	.0	28.7

NW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.9	3.8	.1	.0	.0	.0	4.7	
1-2	.6	10.8	8.0	.0	.0	.0	19.4	
3-4	.1	3.5	7.5	.9	.0	.0	12.1	
5-6	*	.7	2.9	.3	.0	.0	3.9	
7	.0	.1	.8	.4	.0	.0	1.4	
8-9	.0	*	.2	.1	.0	.0	.3	
10-11	.0	.0	*	.1	.0	.0	.1	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	1.6	19.0	19.6	1.7	.0	.0	41.9	96.8

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	7.4	14.5	.6	.0	.0	.0	22.5	
1-2	9.1	29.5	15.3	.0	.0	.0	47.9	
3-4	.6	8.0	11.7	1.2	.0	.0	21.5	
5-6	.1	1.4	3.9	.4	*	.0	5.9	
7	.0	.3	1.0	.5	.0	.0	1.8	
8-9	.0	*	.3	.1	.0	.0	.4	
10-11	.0	.0	*	.1	.0	.0	.1	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
								3733
TOT PCT	11.2	53.7	32.9	2.2	*	.0	100.0	

PERIOD: (OVER-ALL) 1949-1973

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	3.8	28.4	24.1	4.0	1.4	.3	.1	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4233	3
6-7	.1	5.6	7.9	3.3	1.6	.2	.1	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1291	3
8-9	.1	1.4	2.6	1.2	.6	.2	.1	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	421	4
10-11	.0	1.2	.8	.2	.2	.1	*	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	179	3
12-13	.0	.0	.3	.1	.1	.0	*	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	39	5
>13	.0	.0	.0	.1	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	10	5
INDET	7.7	1.2	.4	.2	*	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	650	1
TOTAL	799	2583	2459	628	269	55	22	8	0	0	0	0	0	0	0	0	0	0	0	6823	3
PCT	11.7	37.9	36.0	9.2	3.9	.8	.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

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TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG	DUST BLWG SNOW	NO SIG WEA
N	1.0	.2	.5	.0	.0	.0	.0	1.6	.1	.4	7.6	.3	13.4		.0	76.6
NE	1.6	.4	.0	.0	.0	.0	.0	2.0	.1	1.2	9.0	.0	21.2		.0	66.6
E	1.3	.3	.4	.0	.0	.0	.0	1.6	.0	.4	11.3	.0	14.3		.0	72.4
SE	.8	.1	.2	.0	.0	.0	.0	1.1	.0	.5	11.9	.2	14.8		.0	71.4
S	.5	.4	.9	.0	.0	.0	.0	1.8	.3	.3	8.7	.0	14.3		.0	74.7
SW	.4	*	1.0	.0	.0	.0	.0	1.4	.1	.2	6.7	.2	13.3		.0	78.1
W	.2	*	.4	.0	.0	.0	*	.7	.2	.2	4.9	.1	11.5		.0	82.4
NW	.1	*	.2	.0	.0	.0	.0	.3	.1	.1	5.0	.1	10.6		.0	83.7
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	.0
CALM	.0	.2	.8	.0	.0	.0	.0	1.0	.2	.8	20.2	.4	15.4		.0	62.2
TOT PCT	.3	.1	.4	.0	.0	.0	*	.8	.1	.3	6.5	.1	12.0		.0	80.2
TOT OBS: 13835																

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG	DUST BLWG SNOW	NO SIG WEA
00&03	.3	.1	.1	.0	.0	.0	.0	.5	.1	.2	3.5	*	11.3		.0	84.3
06&09	.4	.1	.4	.0	.0	.0	*	.9	.2	.6	4.5	.1	7.4		.0	86.3
12&15	.5	.1	.9	.0	.0	.0	.0	1.5	.1	.2	9.4	.1	12.6		.0	76.2
18&21	.2	*	.2	.0	.0	.0	.0	.5	.1	.1	8.1	.2	15.2		.0	75.8
TOT PCT	.3	.1	.4	.0	.0	.0	*	.8	.1	.3	6.5	.1	12.1		.0	80.1
TOT OBS: 13940																

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	1.3	4.9	2.8	.2	.0	.0		9.1	8.9	5.0	8.3	10.3	10.2	12.5	13.7	10.5	4.6
NE	.6	1.0	.4	*	.0	.0		2.0	6.8	.7	1.8	2.0	1.9	2.5	4.0	2.2	1.2
E	.5	1.1	.2	*	*	.0		1.9	6.0	.7	1.5	1.4	2.3	2.7	3.6	2.2	1.3
SE	.7	1.8	.4	*	*	.0		3.0	6.5	1.4	3.5	2.0	2.4	2.7	5.3	4.3	2.3
S	1.0	3.3	.4	*	*	.0		4.8	6.2	3.5	3.3	3.7	3.0	3.5	7.5	6.2	6.2
SW	1.3	4.8	.9	*	.0	.0		7.1	6.6	7.3	6.3	5.8	5.8	4.6	7.1	7.2	11.2
W	2.2	14.6	8.5	.4	*	.0		25.7	9.3	34.6	27.9	22.7	24.7	21.0	17.0	21.8	32.1
NW	2.5	19.0	19.6	1.5	*	.0		42.6	11.0	45.2	44.5	47.1	42.9	44.9	36.0	41.2	39.0
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	3.9							3.9	.0	1.6	2.8	4.8	6.7	5.6	5.8	4.2	2.1
TOT OBS	2027	7229	4752	308	9	0	14325		9.1	2575	1313	1697	920	1796	1787	2284	1953
TOT PCT	14.2	50.5	33.2	2.2	.1	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	3.6	4.6	.9	*	.0		9.1	8.9	6.1	10.3	13.1	7.9
NE	1.2	.7	.1	*	.0		2.0	6.8	1.1	2.0	3.3	1.7
E	1.3	.6	*	*	.0		1.9	6.0	1.0	1.7	3.1	1.8
SE	1.9	1.1	*	*	.0		3.0	6.5	2.2	2.2	4.0	3.4
S	2.9	1.8	.1	*	.0		4.8	6.2	3.4	3.5	5.5	6.2
SW	3.9	3.1	.1	.0	.0		7.1	6.6	7.0	5.8	5.8	9.0
W	8.0	15.8	1.8	.1	.0		25.7	9.3	32.3	23.4	19.0	26.6
NW	9.1	27.1	6.3	.2	.0		42.6	11.0	44.9	45.7	40.5	40.2
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	3.9						3.9	.0	2.0	5.5	9.7	3.3
TOT OBS	5108	7837	1330	50	0	14325		9.1	3888	2617	3583	4237
TOT PCT	35.7	54.7	9.3	.3	.0		100.0		100.0	100.0	100.0	100.0

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	2.0	6.7	45.9	41.9	3.4	.1	.0	10.4	100.0	3888
06&09	5.5	8.9	48.4	33.7	3.4	.1	.0	9.4	100.0	2617
12&15	5.7	17.4	51.0	24.6	1.3	.1	.0	7.6	100.0	3583
18&21	3.3	8.1	55.5	32.1	1.0	*	.0	8.9	100.0	4237
TOT	564	1463	7229	4752	308	9	0	9.1		14325
PCT	3.9	10.2	50.5	33.2	2.2	.1	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	3.7	.9	2.1	3.1		4.4
NE	.9	.1	.5	.7		4.2
E	.8	.2	.4	.7		4.4
SE	.8	.3	.5	1.0		5.0
S	1.1	.3	.8	1.8		5.3
SW	2.0	.5	1.5	2.3		4.9
W	10.6	2.2	4.8	7.5		4.1
NW	18.2	3.7	10.2	11.6		4.1
VAR	.0	.0	.0	.0		.0
CALM	1.6	.2	.6	1.7		4.5
TOT OBS	3630	769	1972	2787	9158	4.3
TOT PCT	39.6	8.4	21.5	30.4	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.2	*	.5	1.2	2.1	.7	.1	*	.0	*	5.1	
NE	.1	*	.1	.2	.4	.2	*	*	.0	*	1.2	
E	.1	.0	.1	.2	.4	.2	*	*	.0	*	1.1	
SE	.1	*	.1	.3	.7	.2	*	.0	*	*	1.3	
S	.1	*	.2	.4	1.2	.4	.1	*	.0	*	1.5	
SW	.1	*	.3	.5	1.8	.6	.1	*	*	*	2.8	
W	.3	.1	.6	2.4	5.9	1.6	.2	.1	*	.1	13.7	
NW	.6	.3	1.8	5.0	9.2	2.7	.4	.1	.1	.3	23.4	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.4	*	.1	.3	1.1	.2	*	.0	*	.0	2.0	
TOT OBS	178	40	335	965	2086	620	82	23	16	47	4766	9158
TOT PCT	1.9	.4	3.7	10.5	22.8	6.8	.9	.3	.2	.3	52.0	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM) * OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >50YD	* OR >0
* OR >6500	.4	.7	.7	.7	.7	.7	.7	.7
* OR >5000	.6	.9	.9	.9	.9	.9	.9	.9
* OR >3500	1.2	1.8	1.8	1.8	1.8	1.8	1.8	1.8
* OR >2000	5.2	8.4	8.6	8.6	8.6	8.6	8.6	8.6
* OR >1000	14.3	29.9	31.2	31.3	31.3	31.3	31.3	31.3
* OR >600	17.2	39.1	41.5	41.7	41.8	41.8	41.8	41.8
* OR >300	17.6	41.5	44.8	45.3	45.4	45.4	45.5	45.5
* OR >150	17.7	41.7	45.1	45.7	45.8	45.8	45.9	45.9
* OR > 0	17.7	42.0	45.6	46.3	46.7	46.9	47.5	47.8
TOTAL	1633	3870	4202	4269	4305	4326	4375	4409

TOTAL NUMBER OF OBS: 9220

PCT FREQ NH <5/8: 52.2

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
27.2	7.5	9.6	4.9	3.1	4.0	8.3	7.0	26.7	1.6	9524

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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	*	*	*	.0	.0	.0	*	
	NO PCP	.2	.1	*	.1	.1	.1	.2	.4	.0	.2	1.5	
	TOT %	.2	.1	*	.1	.1	.1	.2	.4	.0	.2	1.5	
1/2<1	PCP	*	.0	.0	.0	*	.0	.0	.0	.0	*	*	
	NO PCP	.1	*	.1	.1	.1	.1	.2	.3	.0	.1	.9	
	TOT %	.1	*	.1	.1	.1	.1	.2	.3	.0	.1	1.0	
1<2	PCP	*	.0	.0	*	*	.0	.0	.0	.0	*	*	
	NO PCP	.1	*	*	.1	.2	.2	.3	.6	.0	.2	1.7	
	TOT %	.1	*	*	.1	.2	.2	.3	.6	.0	.2	1.8	
2<5	PCP	.1	*	.0	*	*	*	.1	.1	.0	*	.3	
	NO PCP	.6	.2	.2	.4	.5	.7	1.5	2.3	.0	.5	6.9	
	TOT %	.7	.3	.2	.4	.5	.7	1.5	2.3	.0	.5	7.1	
5<10	PCP	.1	*	*	*	*	.1	.1	.1	.0	*	.4	
	NO PCP	4.4	.9	.9	1.3	2.2	3.1	11.6	18.4	.0	1.5	44.4	
	TOT %	4.5	.9	.9	1.3	2.2	3.1	11.7	18.5	.0	1.6	44.8	
10+	PCP	*	*	*	.0	*	*	*	*	.0	.0	.1	
	NO PCP	3.6	.7	.6	1.1	1.6	2.9	11.8	20.2	.0	1.2	43.8	
	TOT %	3.6	.7	.6	1.1	1.7	3.0	11.8	20.2	.0	1.2	43.9	
	TOT OBS												13821
	TOT PCT	9.2	2.0	1.9	3.0	4.8	7.1	25.8	42.3	.0	3.8	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.1	*	*	*	*	*	.1	.2	.0	.2	.7	
	4-10	.1	*	*	*	.1	.1	.1	.2	.0		.7	
	11-21	*	*	*	*	*	*	*	.1	.0		.2	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.2	.1	*	.1	.1	.1	.2	.4	.0	.2	1.5	
1/2<1	0-3	*	.0	*	*	*	*	*	.1	.0	.1	.3	
	4-10	.1	*	*	*	*	*	.1	.2	.0		.5	
	11-21	*	.0	.0	*	.0	*	*	.1	.0		.2	
	22+	.0	.0	.0	.0	*	.0	.0	.0	.0		*	
	TOT %	.1	*	.1	.1	.1	.1	.2	.3	.0	.1	1.0	
1<2	0-3	*	*	*	*	.1	.1	.1	.2	.0	.2	.7	
	4-10	.1	*	*	.1	.1	.2	.2	.4	.0		1.1	
	11-21	*	.0	.0	.0	.0	*	.1	.2	.0		.3	
	22+	.0	*	.0	*	*	*	.0	*	.0		*	
	TOT %	.2	.1	*	.1	.2	.2	.4	.7	.0	.2	2.1	
2<5	0-3	.2	.1	.1	.1	.1	.2	.2	.3	.0	.6	1.9	
	4-10	.3	.1	.1	.2	.4	.4	1.0	1.2	.0		3.7	
	11-21	.1	*	*	*	*	.1	.4	.9	.0		1.6	
	22+	*	.0	.0	*	.0	.0	.0	*	.0		.1	
	TOT %	.7	.3	.2	.4	.5	.7	1.6	2.4	.0	.6	7.2	
5<10	0-3	.6	.3	.2	.3	.5	.6	1.0	1.1	.0	1.6	6.2	
	4-10	2.3	.5	.6	7	1.5	2.1	6.6	8.8	.0		22.7	
	11-21	1.3	.1	.1	.2	.2	.4	3.8	8.2	.0		14.3	
	22+	.1	*	*	*	*	*	.2	.6	.0		1.0	
	TOT %	4.4	.9	.9	1.3	2.2	3.1	11.5	18.3	.0	1.6	44.2	
10+	0-3	.3	.1	.1	.2	.4	.5	.8	.7	.0	1.3	4.8	
	4-10	2.0	.4	.4	.7	1.1	2.1	6.5	8.5	.0		21.7	
	11-21	1.2	.2	.1	.2	.1	.4	4.3	10.3	.0		16.8	
	22+	.1	*	*	*	*	*	.2	.8	.0		1.1	
	TOT %	3.6	.7	.6	1.1	1.6	2.9	11.8	20.3	.0	1.3	44.0	
	TOT OBS												14171
	TOT PCT	9.1	2.0	1.9	3.0	4.8	7.1	25.7	42.5	.0	3.9	100.0	

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET,NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00&03	.6	.4	2.8	9.2	17.6	5.0	.6	.3	.2	.5	37.2	62.8	2328
06&09	1.5	.1	3.1	9.0	21.1	6.0	1.2	.3	.1	.6	43.2	56.8	2111
12&15	2.9	.5	5.3	12.3	27.4	7.7	.9	.3	.1	.5	57.8	42.2	2232
18&21	2.5	.7	4.2	10.6	23.2	7.6	.8	.1	.2	.4	49.3	50.7	2734
TOT	179	40	336	970	2099	622	84	23	16	47	4416	4987	9403
PCT	1.9	.4	3.6	10.3	22.3	6.6	.9	.2	.2	.5	47.0	53.0	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00&03	.7	.6	1.6	6.4	44.2	46.5	3869
06&09	1.0	.2	.4	3.9	45.2	49.3	2614
12&15	2.6	1.8	3.4	8.4	44.5	39.3	3567
18&21	1.6	1.2	2.6	9.0	43.0	42.5	4234
TOT	218	143	301	1033	6298	6291	14284
PCT	1.5	1.0	2.1	7.2	44.1	44.0	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET,NH >4/8),BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <3	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	.7	4.0	15.6	23.8	60.6	2279
06&09	1.4	4.9	16.3	29.2	54.5	2081
12&15	2.9	9.4	25.1	36.0	38.9	2191
18&21	2.6	7.0	23.2	30.8	46.0	2669
TOT	178	588	1864	2760	4596	9220
PCT	1.9	6.4	20.2	29.9	49.8	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
90/94	*	.1	*	.0	.0	.0	.0	.0	11	.1
85/89	*	.1	.1	*	*	.0	.0	.0	25	.2
80/84	*	.1	.1	.1	.1	*	*	*	62	.5
75/79	*	*	.1	.3	.6	1.0	.2	.2	288	2.5
70/74	.0	.0	.1	.5	2.3	4.7	5.5	2.1	1797	15.4
65/69	.0	.0	*	.2	2.2	10.8	22.4	12.5	5638	48.2
60/64	.0	.0	.0	*	.9	5.0	16.6	9.0	3683	31.5
55/59	.0	.0	.0	.0	*	.1	.8	.7	192	1.6
TOTAL	13	28	50	141	749	2528	5329	2858	11696	100.0
PCT	.1	.2	.4	1.2	6.4	21.6	45.6	24.4		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
*	*	*	.0	.0	.0	*	*	.0	*
*	*	*	*	*	*	*	.1	.0	*
.1	*	*	*	*	*	.1	.2	.0	.1
.3	.1	.1	.1	.1	.2	.6	1.0	.0	.1
1.2	.4	.3	.6	.8	1.3	4.1	6.1	.0	.6
4.2	1.0	1.0	1.7	2.6	3.7	12.4	19.6	.0	1.9
3.2	.6	.5	.7	1.6	2.0	7.9	14.2	.0	.9
.2	*	.0	*	.1	.1	.4	.8	.0	.1
9.2	2.1	1.9	3.2	5.2	7.3	25.4	42.0	.0	3.7

TABLE 15

MEANS,EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00&03	93	80	74	67	62	60	58	67.2	3903
06&09	86	73	70	65	60	58	55	65.0	2640
12&15	93	76	70	65	60	58	54	64.9	3598
18&21	94	79	74	67	62	59	54	67.4	4248
TOT	94	78	73	66	61	59	54	66.3	14389

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00&03	.2	2.6	8.2	24.4	43.4	21.2	81	3293
06&09	.0	.7	2.0	15.3	53.9	28.1	85	2044
12&15	.0	1.1	4.0	15.3	46.1	33.6	85	2918
18&21	.2	2.7	9.4	27.8	42.0	17.9	80	3538
TOT	13	224	758	2547	5362	2889	83	11793

PERIOD: (PRIMARY) 1944-1973
(OVER-ALL) 1881-1973

AREA 0032 SAN DIEGO
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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	53 56	57 60	61 64	65 68	69 72	73 76	77 80	81 84	85 88	89 92	>92	TOT	W FOG	WO FOG
23/25	.0	.0	.0	.0	.0	.0	.0	.0	*	*	*	4	.0	*
20/22	.0	.0	.0	.0	.0	.0	.0	*	*	*	*	11	.0	.1
17/19	.0	.0	.0	.0	.0	*	*	*	.1	*	.0	18	.0	.1
14/16	.0	.0	*	*	*	.1	*	.1	*	*	*	36	.0	.3
11/13	.0	.0	*	*	.2	.2	.1	.1	*	.0	.0	93	*	.7
9/10	.0	.0	*	.1	.3	.3	.2	*	*	.0	.0	124	.1	.9
7/8	.0	*	.1	.3	.7	.7	.3	*	.0	.0	.0	265	.2	1.9
6	.0	*	*	.3	.7	.5	.1	*	.0	.0	.0	208	.1	1.5
5	*	*	.1	.6	1.1	.6	.1	.0	.0	.0	.0	316	.1	2.3
4	.0	*	.2	1.0	1.5	.5	.1	.0	.0	.0	.0	432	.2	3.2
3	.0	*	.2	1.5	2.0	.6	*	.0	.0	.0	.0	536	.2	4.0
2	.0	*	.8	2.8	2.9	.4	*	.0	.0	.0	.0	864	.4	6.4
1	.0	*	1.0	3.7	2.9	.3	*	.0	.0	.0	.0	1013	.4	7.6
0	.0	.1	2.3	6.0	2.1	.1	*	*	.0	.0	.0	1361	.7	10.0
-1	.0	.2	2.4	6.3	1.9	.2	.0	.0	.0	.0	.0	1386	.6	10.3
-2	.0	.3	4.1	6.1	1.1	.1	*	.0	.0	.0	.0	1473	.7	10.9
-3	.0	.4	4.3	5.3	.6	.1	.0	.0	.0	.0	.0	1352	.9	9.8
-4	.0	.6	4.9	3.2	.3	*	*	.0	.0	.0	.0	1150	.6	8.5
-5	*	.5	3.5	2.1	.2	*	.0	.0	.0	.0	.0	809	.4	6.0
-6	*	.8	2.7	.9	.1	.0	.0	.0	.0	.0	.0	569	.3	4.1
-7/-8	*	.8	2.3	.7	.1	.0	.0	.0	.0	.0	.0	498	.4	3.6
-9/-10	*	.3	.5	.2	*	*	.0	.0	.0	.0	.0	134	.2	.9
-11/-13	*	*	.1	.1	.0	.0	.0	.0	.0	.0	.0	23	*	.1
-14/-16	.0	*	*	*	.0	.0	.0	.0	.0	.0	.0	7	*	*
-17/-19	.0	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	2	.0	*
TOTAL	14	547	3726	5231	2372	584	132	40	23	12	3	12684	823	11861
PCT	.1	4.3	29.4	41.2	18.7	4.6	1.0	.3	.2	.1	*	100.0	6.5	93.5

PERIOD: (OVER-ALL) 1963-1973

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.4	1.3	.1	.0	.0	.0	1.8
1-2	.4	2.7	1.6	.0	.0	.0	4.8
3-4	.0	1.0	1.6	.1	.0	.0	2.7
5-6	.0	.1	.3	.1	.0	.0	.5
7	.0	.0	.1	*	.0	.0	.1
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.8	5.2	3.7	.2	.0	.0	10.0

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	.6	*	.0	.0	.0	.9
1-2	.1	.5	.5	.0	.0	.0	1.1
3-4	.0	.2	.2	*	.0	.0	.4
5-6	.0	.0	.0	*	.0	.0	*
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.5	2.4	.8	*	.0	.0	3.8

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	.7	*	.0	.0	.0	1.0
1-2	.1	.7	.1	.0	.0	.0	.9
3-4	.0	*	.1	.1	.0	.0	.2
5-6	.0	.0	*	.0	.0	.0	*
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	1.5	.2	.1	.0	.0	2.0

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	.8	.1	.0	.0	.0	1.2
1-2	.1	1.3	.5	.0	.0	.0	1.8
3-4	.0	.2	.1	*	.0	.0	.3
5-6	.0	.1	.0	.0	.0	.0	.1
7	.0	.0	*	.0	.0	.0	*
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.4	2.4	.6	*	.0	.0	3.4

PERIOD: (OVER-ALL) 1963-1973 SEPTEMBER AREA 0032 SAN DIEGO

TABLE 18 (CONT) 32.6N 118.0W

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

S

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.5	1.0	*	.0	.0	.0	1.6
1-2	.1	1.9	.3	.0	.0	.0	2.3
3-4	.0	.2	.1	.0	.0	.0	.3
5-6	.0	.0	*	.0	.0	.0	*
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.6	3.1	.4	.0	.0	.0	4.2

SW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	1.5	.1	.0	.0	.0	1.9
1-2	.3	2.7	.4	.0	.0	.0	3.4
3-4	.1	.7	.1	.0	.0	.0	.8
5-6	.0	*	*	.0	.0	.0	*
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.7	4.6	.6	.0	.0	.0	6.0

W

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.5	2.7	.1	.0	.0	.0	3.3
1-2	.7	7.5	4.2	.0	.0	.0	12.4
3-4	.1	2.7	3.4	.1	.0	.0	6.3
5-6	*	.3	.4	.1	.0	.0	.8
7	.0	.1	.2	*	.0	.0	.3
8-9	.0	*	*	*	.0	.0	.1
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.4	13.3	8.3	.3	.0	.0	23.2

NW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.8	3.1	.1	.0	.0	.0	4.1	
1-2	.8	10.2	8.9	.0	.0	.0	20.0	
3-4	.1	5.1	8.2	.6	.0	.0	14.1	
5-6	*	1.0	3.0	.3	.0	.0	4.3	
7	.1	.2	1.2	.5	.0	.0	1.9	
8-9	.0	.1	.2	.2	.0	.0	.4	
10-11	.0	.0	*	*	.0	.0	.1	
12	.0	.0	*	.0	.0	.0	*	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	1.8	19.8	21.7	1.6	.0	.0	44.9	96.1

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	6.8	11.8	.6	.0	.0	.0	19.2	
1-2	3.0	27.6	16.5	.0	.0	.0	47.1	
3-4	.5	9.7	13.7	1.0	.0	.0	24.9	
5-6	*	1.5	3.7	.5	.0	.0	5.8	
7	.1	.3	1.5	.5	.0	.0	2.4	
8-9	.0	.1	.2	.2	.0	.0	.5	
10-11	.0	.0	*	*	.0	.0	.1	
12	.0	.0	*	.0	.0	.0	*	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	10.3	51.1	36.4	2.2	.0	.0	100.0	3369

PERIOD: (OVER-ALL) 1949-1973 TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	2.8	29.3	22.4	4.7	1.6	.4	.1	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4147	3
6-7	.1	4.2	7.6	3.6	1.6	.6	.1	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1215	4
8-9	.1	1.1	2.3	1.4	.6	.4	.2	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	422	4
10-11	.0	.6	.8	.4	.4	.2	.1	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	174	5
12-13	.0	.0	.3	.1	.2	.1	*	*	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	56	6
>13	.0	.0	.0	.1	.1	.0	*	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	12	8
INDET	8.2	1.9	.5	.1	*	*	.0	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	735	1
TOTAL	765	2512	2291	708	300	112	37	17	19	0	0	0	0	0	0	0	0	0	0	6761	3
PCT	11.3	37.2	33.9	10.5	4.4	1.7	.5	.3	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

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TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	.3	.1	.3	.0	.0	.0	.0	.7	.1	.2	10.5	.1	12.1		*	76.3
NE	1.5	.7	.5	.0	.0	.0	.0	2.5	.2	.0	12.7	.0	15.9		.0	68.7
E	1.1	.6	1.0	.0	.0	.0	.0	2.3	.0	.0	10.5	.6	12.1		.0	74.5
SE	1.6	.6	1.0	.0	.0	.0	.0	3.0	.2	.1	10.2	.0	16.6		.0	70.0
S	.9	.5	.9	.0	.0	.0	0	2.3	.4	.1	9.2	.2	15.9		.0	72.0
SW	.4	.2	.3	.0	.0	.0	.0	.9	.3	.0	7.3	.1	13.2		.0	78.2
W	.2	.1	.3	.0	.0	.0	.0	.6	.1	.1	6.5	.1	11.2		*	81.3
NW	.1	.2	.2	.0	.0	.0	.0	.5	.1	.2	6.5	.1	9.6		*	83.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	.0
CALM	.2	.0	.3	.0	.0	.0	.0	.5	.2	.8	15.4	.2	21.1		.2	61.9
TOT PCT	.4	.2	.4	.0	.0	.0	.0	.9	.2	.2	8.0	.1	11.9		*	78.7
TOT OBS: 15267																

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00&03	.3	.1	.2	.0	.0	.0	.0	.6	*	.1	5.0	.1	11.4		*	82.6
06&09	.2	.2	.3	.0	.0	.0	.0	.8	.1	.3	7.8	.1	9.2		.0	81.7
12&15	.4	.4	.5	.0	.0	.0	.0	1.3	.2	.2	10.6	.1	11.8		.1	75.8
18&21	.4	.2	.4	.0	.0	.0	.0	1.0	.2	.0	8.9	.1	13.9		*	75.9
TOT PCT	.4	.2	.4	.0	.0	.0	.0	.9	.1	.1	8.0	.1	11.8		*	78.8
TOT OBS: 15438																

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	1.8	6.3	3.1	.2	*	.0		11.5	8.3	7.0	11.0	13.2	13.4	14.2	14.5	14.0	7.4
NE	1.1	2.3	.4	*	*	.0		3.9	6.2	1.2	3.6	2.4	3.6	5.3	8.1	5.2	2.6
E	.9	1.9	.4	*	.0	.0		3.2	5.9	1.2	2.0	3.1	3.4	4.1	6.5	4.4	1.3
SE	1.0	2.3	.3	*	.0	.0		3.6	5.6	1.8	3.3	3.5	4.2	3.2	7.1	5.1	1.8
S	1.2	3.2	.5	*	.0	.0		4.9	6.1	4.0	4.8	3.2	3.4	4.6	5.7	6.9	5.9
SW	1.5	4.6	1.0	*	.0	.0		7.1	6.7	7.0	6.7	5.9	8.0	5.1	6.3	6.8	11.0
W	2.4	13.4	6.8	.6	*	.0		23.3	9.1	31.3	24.7	22.0	23.8	18.7	14.1	18.5	29.9
NW	2.7	18.2	15.4	1.7	*	.0		38.1	10.7	44.9	41.9	41.4	34.1	37.3	29.2	33.9	38.3
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	4.5							4.5	.0	1.7	2.1	5.3	6.0	7.4	8.6	5.2	1.6
TOT OBS	2726	8263	4429	420	12	0	15850		8.5	2957	1494	1951	989	2013	1926	2383	2137
TOT PCT	17.2	52.1	27.9	2.6	.1	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	5.0	5.7	.7	*	.0		11.5	8.3	8.3	13.3	14.6	10.9
NE	2.5	1.3	.1	*	.0		3.9	6.2	2.0	2.8	6.7	4.0
E	2.1	1.0	.1	.0	.0		3.2	5.9	1.4	3.2	5.3	3.0
SE	2.5	1.0	.1	.0	.0		3.6	5.6	2.3	3.7	5.1	3.6
S	3.1	1.7	.1	.0	.0		4.9	6.1	4.3	3.3	5.2	6.4
SW	3.9	3.0	.2	*	.0		7.1	6.7	6.9	6.6	5.7	8.8
W	8.2	13.0	1.9	.2	.0		23.3	9.1	29.0	22.6	16.5	23.9
NW	9.6	23.0	5.0	.4	.0		38.1	10.7	43.9	38.9	33.3	36.0
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	4.5						4.5	.0	1.8	5.5	7.9	3.5
TOT OBS	6575	7871	1301	103	0	15850		8.5	4451	2940	3939	4520
TOT PCT	41.5	49.7	8.2	.6	.0		100.0		100.0	100.0	100.0	100.0

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	1.8	8.5	50.8	35.7	3.1	.1	.0	9.7	100.0	4451
06&09	5.5	12.2	50.4	28.0	3.8	.1	.0	8.8	100.0	2940
12&15	7.9	18.9	50.4	20.6	2.1	.1	.0	7.2	100.0	3939
18&21	3.5	11.7	56.1	26.7	1.9	*	.0	8.4	100.0	4520
TOT	718	2008	8263	4429	420	12	0	8.5		15850
PCT	4.5	12.7	52.1	27.9	2.6	.1	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	6.4	1.0	2.2	2.9		3.4
NE	2.2	.2	.6	.8		3.2
E	1.5	.3	.5	.9		3.7
SE	1.1	.3	.8	1.3		4.8
S	1.4	.4	1.0	1.8		4.9
SW	2.3	.6	1.4	2.3		4.6
W	9.4	2.2	5.4	5.9		4.1
NW	17.0	3.9	8.0	9.3		3.8
VAR	.0	.0	.0	.0		.0
CALM	1.8	.3	.9	1.8		4.6
TOT OBS	4325	920	2081	2704	10030	4.0
TOT PCT	43.1	9.2	20.7	27.0	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.3	*	.2	.8	2.1	.7	.1	.0	*	*	8.0	
NE	.1	.0	.1	.2	.7	.2	*	*	*	*	2.4	
E	.1	.0	.1	.3	.6	.1	*	*	*	*	2.0	
SE	.1	*	.1	.3	1.0	.3	.1	*	*	*	1.6	
S	.1	*	.1	.4	1.1	.4	.1	*	*	*	2.2	
SW	.1	*	.2	.5	1.5	.6	.1	*	*	*	3.4	
W	.4	.1	.4	1.6	4.6	2.0	.3	.1	*	.2	13.2	
NW	.8	*	.8	2.8	7.4	2.6	.5	.1	.1	.2	23.0	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.2	*	.1	.5	1.1	.4	*	*	*	*	2.3	
TOT OBS	220	17	208	746	2019	733	130	29	31	56	5041	10030
TOT PCT	2.2	.2	2.1	7.4	20.1	7.3	1.3	.3	.3	.6	58.4	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM) * OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >50YD	* OR >0
* OR >6500	.4	.8	.8	.8	.8	.8	.9	.9
* OR >5000	.6	1.1	1.1	1.1	1.2	1.2	1.2	1.2
* OR >3500	1.3	2.3	2.4	2.4	2.4	2.4	2.4	2.4
* OR >2000	5.2	9.4	9.7	9.7	9.7	9.7	9.8	9.8
* OR >1000	12.7	27.3	29.3	29.6	29.7	29.8	29.8	29.8
* OR >600	14.5	33.1	36.3	36.9	37.1	37.1	37.1	37.1
* OR >300	14.7	34.3	38.1	38.8	39.2	39.2	39.2	39.2
* OR >150	14.8	34.4	38.2	39.0	39.3	39.4	39.4	39.4
* OR > 0	14.8	34.6	38.7	39.6	40.4	40.7	41.3	41.6
TOTAL	1502	3505	3917	4014	4093	4120	4180	4211

TOTAL NUMBER OF OBS: 10133 PCT FREQ NH <5/8: 58.4

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
32.5	7.1	10.6	5.0	3.1	4.4	7.7	5.6	22.3	1.8	10473

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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	PCP	*	*	*	*	*	.0	.0	*	.0	.0	*	
<1/2	NO PCP	.4	.1	.1	.1	.1	.1	.4	.6	.0	.2	2.1	
	TOT %	.4	.1	.1	.1	.1	.1	.4	.7	.0	.2	2.2	
	PCP	.0	*	.0	*	*	*	*	*	.0	.0	*	
1/2<1	NO PCP	.3	.1	.1	.1	.1	.1	.2	.6	.0	.1	1.5	
	TOT %	.3	.1	.1	.1	.1	.1	.2	.6	.0	.1	1.6	
	PCP	*	*	.0	.0	*	*	*	*	.0	.0	.1	
1<2	NO PCP	.3	.2	.1	.1	.2	.1	.4	.7	.0	.2	2.5	
	TOT %	.3	.2	.1	.1	.2	.1	.4	.7	.0	.2	2.5	
	PCP	*	*	*	*	*	*	*	*	.0	*	.2	
2<5	NO PCP	.9	.4	.3	.3	.5	.7	1.5	2.2	.0	.4	7.1	
	TOT %	.9	.4	.3	.4	.5	.7	1.5	2.2	.0	.4	7.3	
	PCP	*	*	*	*	*	*	.1	.1	.0	*	.4	
5<10	NO PCP	4.3	1.6	1.3	1.6	2.2	2.9	9.3	13.4	.0	1.9	38.4	
	TOT %	4.3	1.6	1.3	1.6	2.3	3.0	9.4	13.5	.0	1.9	38.8	
	PCP	*	*	*	*	*	*	*	*	.0	.0	.2	
10+	NO PCP	5.4	1.5	1.4	1.3	1.7	3.0	11.4	20.2	.0	1.5	47.5	
	TOT %	5.4	1.5	1.4	1.3	1.8	3.0	11.4	20.2	.0	1.5	47.6	
	TOT OBS												15260
	TOT PCT	11.6	4.0	3.3	3.7	4.9	7.1	23.3	38.0	.0	4.2	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	0-3	.1	.1	*	.1	*	*	.1	.1	.0	.2	.8	
<1/2	4-10	.2	.1	*	*	.1	.1	.2	.4	.0		1.2	
	11-21	*	*	.0	.0	*	*	.1	.2	.0		.3	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.3	.1	.1	.1	.1	.1	.4	.7	.0	.2	2.3	
	0-3	.1	*	*	*	*	.1	*	.1	.0	.1	.6	
1/2<1	4-10	.2	*	*	*	*	.1	.1	.4	.0		.9	
	11-21	*	.0	.0	*	*	*	*	.1	.0		.2	
	22+	.0	.0	.0	.0	.0	.0	.0	*	.0		*	
	TOT %	.3	.1	.1	.1	.1	.2	.2	.6	.0	.1	1.7	
	0-3	.1	.1	*	*	.1	.1	.1	.1	.0	.2	.9	
1<2	4-10	.2	.1	.1	.1	.1	.1	.3	.6	.0		1.6	
	11-21	*	*	.0	*	*	.0	.1	.2	.0		.3	
	22+	*	.0	.0	.0	*	.0	*	*	.0		*	
	TOT %	.4	.2	.1	.2	.2	.2	.5	.9	.0	.2	2.6	
	0-3	.2	.2	.1	.1	.2	.2	.3	.3	.0	.4	1.9	
2<5	4-10	.5	.2	.2	.2	.3	.4	.9	1.5	.0		4.2	
	11-21	.2	*	*	*	*	*	.4	.6	.0		1.3	
	22+	.0	.0	.0	*	.0	.0	*	.0	.0		*	
	TOT %	.9	.4	.3	.4	.5	.7	1.6	2.3	.0	.4	7.5	
	0-3	.7	.5	.4	.4	.5	.6	.9	1.0	.0	1.9	6.9	
5<10	4-10	2.3	.9	.8	1.0	1.5	1.9	5.7	6.7	.0		20.8	
	11-21	1.1	.1	.1	.1	.2	.4	2.5	5.2	.0		9.9	
	22+	*	*	.0	.0	*	*	.1	.4	.0		.6	
	TOT %	4.2	1.6	1.3	1.6	2.2	2.9	9.2	13.3	.0	1.9	38.1	
	0-3	.6	.3	.3	.3	.4	.5	.9	1.0	.0	1.6	6.0	
10+	4-10	2.8	1.0	.8	.9	1.1	2.0	6.2	8.6	.0		23.4	
	11-21	1.8	.2	.2	.1	.2	.5	3.8	9.1	.0		16.0	
	22+	.2	*	*	*	*	*	.5	1.4	.0		2.1	
	TOT %	5.4	1.5	1.3	1.3	1.7	3.0	11.5	20.1	.0	1.6	47.5	
	TOT OBS												15660
	TOT PCT	11.5	3.9	3.2	3.6	4.9	7.1	23.3	38.0	.0	4.5	100.0	

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET,NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00&03	1.2	.1	1.8	5.9	16.2	5.6	1.2	.2	.3	.9	33.5	66.5	2653
06&09	2.0	.1	1.8	7.5	18.6	6.2	1.0	.2	.3	.3	38.0	62.0	2397
12&15	2.4	.2	2.4	8.9	23.6	8.8	1.2	.3	.3	.3	48.4	51.6	2388
18&21	2.9	.2	2.3	7.0	20.7	8.1	1.5	.5	.3	.6	44.0	56.0	2876
TOT	221	17	212	748	2032	743	130	31	31	56	4221	6098	10319
PCT	2.1	.2	2.1	7.2	19.7	7.2	1.3	.3	.3	.5	40.9	59.1	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00&03	1.5	1.2	2.2	6.8	38.2	50.1	4449
06&09	1.6	.7	1.0	5.4	39.4	51.9	2935
12&15	3.8	2.4	4.1	7.6	38.4	43.6	3929
18&21	2.3	2.1	3.5	9.3	36.6	46.1	4522
TOT	366	268	448	1183	6021	7549	15835
PCT	2.3	1.7	2.8	7.5	38.0	47.7	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET,NH >4/8),BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	1.3	3.8	13.9	23.2	63.0	2598
06&09	2.0	4.4	15.5	25.7	58.8	2355
12&15	2.5	5.9	19.1	32.3	48.6	2358
18&21	2.9	6.7	21.1	28.3	50.6	2822
TOT	223	528	1771	2767	5595	10133
PCT	2.2	5.2	17.5	27.3	55.2	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
90/94	.0	*	.0	.0	.0	.0	.0	.0	1	*
85/89	*	*	*	.0	*	.0	*	.0	10	.1
80/84	.1	.1	.1	.1	*	*	.0	*	53	.4
75/79	.1	.2	.1	.5	.4	.3	.1	.1	232	1.8
70/74	.1	.1	.4	1.0	2.3	2.7	1.8	.7	1173	9.2
65/69	.1	.1	.3	.9	3.5	11.8	15.7	6.7	4990	39.1
60/64	*	.1	.3	.6	2.8	9.5	21.2	10.6	5760	45.2
55/59	.0	.1	*	.1	.3	.6	1.4	1.6	526	4.1
50/54	.0	.0	.0	*	*	*	*	*	11	.1
TOTAL	59	90	158	412	1203	3187	5132	2515	12756	100.0
PCT	.5	.7	1.2	3.2	9.4	25.0	40.2	19.7		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.0	.0	.0	.0	.0	.0	.0	*
*	*	*	.0	*	.0	*	*	.0	.0
.1	*	*	*	*	*	.1	.2	.0	*
.3	.1	.1	*	*	.1	.3	.7	.0	*
1.3	.5	.4	.3	.4	.7	1.9	3.4	.0	.3
4.4	1.5	1.1	1.3	2.3	2.8	9.2	14.9	.0	1.6
5.0	1.7	1.5	1.7	2.0	3.1	10.7	17.5	.0	2.0
.5	.3	.2	.2	.2	.2	.9	1.5	.0	.2
*	*	.0	*	*	*	*	*	.0	.0
11.7	4.1	3.3	3.6	5.0	6.9	23.1	38.3	.0	4.1

TABLE 15

MEANS,EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00&03	90	78	73	65	60	58	53	65.7	4480
06&09	84	72	69	64	59	57	54	63.9	2959
12&15	92	72	69	63	58	56	50	63.3	3978
18&21	89	78	73	66	60	58	54	66.0	4557
TOT	92	76	72	64	60	57	50	64.8	15974

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00&03	.5	6.1	10.5	25.6	40.7	16.6	79	3719
06&09	.1	1.9	6.7	20.9	44.9	25.4	83	2269
12&15	.2	4.3	6.5	22.2	41.0	25.9	82	3173
18&21	.8	7.0	12.7	29.3	36.0	14.1	77	3736
TOT	59	670	1221	3226	5178	2543	80	12897

OCTOBER

PERIOD: (PRIMARY) 1943-1973
(OVER-ALL) 1881-1973

AREA 0032 SAN DIEGO
32.6N 118.0W

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	49 52	53 56	57 60	61 64	65 68	69 72	73 76	77 80	81 84	85 88	89 92	TOT	W FOG	WO FOG
23/25	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	.0	2	.0	*
20/22	.0	.0	.0	.0	.0	.0	.0	.0	*	*	*	5	.0	*
17/19	.0	.0	.0	.0	.0	.0	.0	*	.1	*	*	12	.0	.1
14/16	.0	.0	.0	.0	.0	*	*	.1	*	*	*	37	.0	.3
11/13	.0	.0	.0	*	*	.2	.3	.2	.1	.0	.0	109	*	.8
9/10	.0	.0	.0	*	.1	.3	.4	.2	*	.0	.0	124	*	.9
7/8	.0	.0	*	*	.3	.7	.6	.1	.0	.0	.0	232	.1	1.8
6	.0	.0	*	.1	.4	.7	.4	*	.0	.0	.0	226	.1	1.6
5	.0	.0	*	.2	.6	1.1	.2	*	.0	.0	.0	289	.1	2.0
4	.0	.0	.0	.6	1.3	1.1	.2	*	.0	.0	.0	453	.2	3.1
3	.0	.0	.1	.6	2.2	1.2	.2	.0	.0	.0	.0	582	.2	4.0
2	.0	.0	.1	1.4	3.2	1.2	.1	.0	.0	.0	.0	821	.5	5.5
1	.0	*	.1	1.9	4.3	1.2	.1	.0	.0	.0	.0	1060	.5	7.2
0	.0	*	.3	4.3	4.9	1.0	.1	.0	.0	.0	.0	1440	.9	9.6
-1	.0	*	.4	4.6	4.8	1.0	*	.0	.0	.0	.0	1497	.7	10.1
-2	.0	*	1.0	7.3	3.6	.4	*	.0	.0	.0	.0	1690	.9	11.4
-3	.0	*	1.0	6.2	3.6	.3	*	.0	.0	.0	.0	1546	.8	10.4
-4	.0	.1	1.9	5.2	1.9	.1	.0	.0	.0	.0	.0	1256	.9	8.2
-5	.0	*	1.5	4.0	1.8	.1	*	.0	.0	.0	.0	1014	.7	6.6
-6	.0	.1	1.3	2.6	.6	*	.0	.0	.0	.0	.0	664	.6	4.2
-7/-8	.0	.1	1.1	1.8	.6	.0	.0	.0	.0	.0	.0	489	.5	3.1
-9/-10	*	.1	.3	.4	.1	*	.0	.0	.0	.0	.0	128	.1	.8
-11/-13	.0	*	.2	.1	*	.0	.0	.0	.0	.0	.0	47	.1	.3
-14/-16	.0	*	*	*	*	*	.0	.0	.0	.0	.0	16	*	.1
-17/-19	.0	.0	*	*	*	.0	.0	.0	.0	.0	.0	5	*	*
-20/-22	.0	.0	.0	*	*	.0	.0	.0	.0	.0	.0	2	.0	*
TOTAL	1	70	1321	5680	4715	1467	368	104	29	8	3	13766	1105	12661
PCT	*	.5	9.6	41.3	34.3	10.7	2.7	.8	.2	.1	*	100.0	8.0	92.0

PERIOD: (OVER-ALL) 1963-1973

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.5	2.9	.2	.0	.0	.0	3.6
1-2	.5	3.2	2.0	.0	.0	.0	5.7
3-4	.1	.9	1.2	.2	.0	.0	2.4
5-6	*	.2	.2	.1	.0	.0	.4
7	.0	*	.1	.1	.0	.0	.2
8-9	.0	.0	*	*	.0	.0	.1
10-11	.0	.0	*	*	.0	.0	.1
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.1	7.2	3.8	.5	.0	.0	12.5

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.6	1.6	*	.0	.0	.0	2.2
1-2	.2	1.2	.5	.0	.0	.0	1.9
3-4	.0	.2	.1	.0	.0	.0	.4
5-6	*	*	.0	.0	.0	.0	*
7	.0	.0	*	.0	.0	.0	*
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.8	3.0	.7	.0	.0	.0	4.5

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.4	1.2	.1	.0	.0	.0	1.6
1-2	.2	.9	.4	.0	.0	.0	1.4
3-4	.0	.0	.2	*	.0	.0	.2
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	*	.0	.0	.0	*
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.6	2.0	.6	*	.0	.0	3.3

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.5	1.1	*	.0	.0	.0	1.7
1-2	.1	.9	.2	.0	.0	.0	1.3
3-4	.0	.2	.1	*	.0	.0	.3
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.7	2.2	.3	*	.0	.0	3.3

PERIOD: (OVER-ALL) 1963-1973 OCTOBER AREA 0032 SAN DIEGO

TABLE 18 (CONT) 32.6N 118.0W

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

	S							SW						
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.4	1.8	*	.0	.0	.0	2.3	.5	1.8	*	.0	.0	.0	2.4
1-2	.2	1.2	.3	.0	.0	.0	1.7	.3	1.6	.7	.0	.0	.0	2.6
3-4	*	.2	*	*	.0	.0	.2	.1	.2	.1	*	.0	.0	.4
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	*	*	.0	.0	.0	.1
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.7	3.2	.3	*	.0	.0	4.2	.8	3.7	.9	*	.0	.0	5.5

	W							NW							TOTAL
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	PCT
<1	.9	4.4	.3	.0	.0	.0	5.6	1.1	4.9	.5	.0	.0	.0	6.5	
1-2	.6	5.4	3.2	.0	.0	.0	9.2	.9	11.1	7.5	.0	.0	.0	19.5	
3-4	.2	1.6	1.9	.1	.0	.0	3.7	.2	3.5	7.4	.8	.0	.0	11.9	
5-6	.0	.1	.3	.1	.0	.0	.5	.0	.5	1.9	.4	.0	.0	2.8	
7	.0	*	.2	*	.0	.0	.3	.0	*	.8	.5	.0	.0	1.4	
8-9	.0	.1	.0	.0	.0	.0	.1	.0	.1	.1	.3	.0	.0	.4	
10-11	.0	.0	*	.0	.0	.0	*	.0	.1	.1	.1	.0	.0	.2	
12	.0	.0	*	.0	.0	.0	*	.0	.0	*	.0	.0	.0	*	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	*	.0	.0	.0	.0	*	.0	.0	*	.0	.0	.0	*	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	1.7	11.5	6.0	.2	.0	.0	19.5	2.2	20.1	18.3	2.1	.0	.0	42.8	95.5

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	9.0	19.6	1.2	.0	.0	.0	29.7	
1-2	3.6	25.5	14.7	.0	.0	.0	43.9	
3-4	.5	6.8	11.1	1.2	.0	.0	19.6	
5-6	*	.8	2.3	.7	.0	.0	3.8	
7	.0	.1	1.3	.7	.0	.0	2.0	
8-9	.0	.1	.1	.3	.0	.0	.5	
10-11	.0	.1	.1	.1	.0	.0	.3	
12	.0	.0	.1	.0	.0	.0	.1	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	*	*	.0	.0	.0	.1	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	13.1	53.0	31.0	2.9	.0	.0	100.0	3383

PERIOD: (OVER-ALL) 1949-1973 TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	4.4	27.3	19.6	3.7	1.0	.2	.2	*	*	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	4130	3
6-7	.2	3.9	7.6	3.3	1.7	.5	.2	.1	*	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	1271	4
8-9	*	1.1	2.8	1.4	1.0	.5	.3	.1	*	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	539	5
10-11	.0	1.3	.9	.6	.3	.3	.1	.1	.0	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	261	4
12-13	.0	.0	.4	.2	.1	.1	.1	*	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	70	6
>13	.0	.0	.0	.1	.1	*	*	*	.0	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	16	8
INDET	11.5	1.8	.5	.1	.1	*	*	.0	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	1026	0
TOTAL	1176	2589	2772	694	305	117	64	25	11	7	3	0	0	0	0	0	0	0	0	7313	3
PCT	16.1	35.4	31.8	9.5	4.2	1.6	.9	.3	.2	.1	*	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

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TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	.3	*	.1	.0	.0	.0	.0	.5	.2	.2	6.1	.1	10.9	*		82.0
NE	.7	.1	.2	.0	.0	.0	.0	1.1	.2	.1	7.4	.0	10.1	.1		81.0
E	1.6	.3	.3	.0	.0	.0	.0	2.0	.7	.7	6.9	.1	11.9	.3		77.4
SE	6.6	2.2	2.1	.0	.0	.0	.0	10.1	2.3	.4	6.0	.3	11.5	.1		69.2
S	5.7	2.5	2.5	.0	.0	.0	.0	9.9	1.8	.1	6.5	.0	8.1	.0		73.6
SW	2.2	1.5	1.6	.0	.0	.0	.1	5.3	1.3	.1	5.2	.0	9.2	.0		78.9
W	1.1	.5	.7	.0	.0	.0	*	2.2	.7	*	5.9	.2	8.1	.1		82.8
NW	.3	.2	.4	.0	.0	.0	.0	.9	.3	*	4.1	.2	8.1	.1		86.3
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0
CALM	.5	.0	.2	.0	.0	.0	.2	.9	.0	.0	18.0	.3	14.2	.0		66.6
TOT PCT	1.2	.5	.6	.0	.0	.0	*	2.3	.6	.1	6.0	.1	9.3	.1		81.4
TOT OBS:	12949															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00&03	1.2	.5	.5	.0	.0	.0	.1	2.2	.3	.2	4.2	.1	9.7	.1		83.3
06&09	1.2	.6	.6	.0	.0	.0	.0	2.4	.9	*	6.4	.1	5.9	*		84.3
12&15	1.4	.5	.7	.0	.0	.0	*	2.5	.7	.2	7.2	.1	8.7	.0		80.5
18&21	1.2	.5	.7	.0	.0	.0	*	2.3	.6	.0	6.4	.3	11.8	.2		78.4
TOT PCT	1.3	.5	.6	.0	.0	.0	*	2.3	.6	.1	6.0	.1	9.3	.1		81.4
TOT OBS:	13076															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	2.1	7.8	4.2	.3	*	.0		14.4	8.7	10.3	14.3	15.6	16.0	16.3	17.1	16.4	11.8
NE	1.4	3.8	1.2	.1	*	.0		6.5	7.1	2.4	6.1	4.5	7.5	7.6	12.7	8.8	4.6
E	1.1	3.0	.9	.1	.0	.0		5.1	7.3	1.1	3.2	5.2	5.1	6.6	11.0	6.9	2.7
SE	.9	2.4	1.0	.1	.0	.0		4.5	8.1	2.2	3.1	4.5	3.5	4.5	8.4	6.2	3.2
S	.8	3.0	1.3	.2	*	.0		5.3	8.6	4.[illegible]	4.4	5.2	4.0	5.5	4.8	6.4	6.4
SW	1.1	3.8	1.8	.1	.0	.0		6.2	7.5	7.4	6.1	5.6	4.3	4.4	4.7	6.4	9.4
W	1.9	10.3	5.4	.5	.1	.0		18.3	9.3	25.8	21.2	17.0	19.5	15.2	9.9	13.4	22.6
NW	2.5	17.1	13.1	1.8	.1	.0		34.6	10.7	43.8	37.0	36.4	32.7	33.2	24.2	30.1	36.0
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	5.1							5.1	.0	2.2	4.6	6.1	7.5	6.7	7.2	5.4	3.2
TOT OBS	2263	6922	3814	433	29	0	13461		8.8	2415	1208	1637	859	1836	1670	1956	1880
TOT PCT	16.8	51.4	28.3	3.2	.2	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	5.6	7.6	1.1	.1	.0		14.4	8.7	11.6	15.7	16.7	14.1
NE	3.6	2.6	.3	*	.0		6.5	7.1	3.6	5.5	10.0	6.7
E	2.7	2.0	.3	*	.0		5.1	7.3	1.8	3.2	8.7	4.8
SE	2.2	1.8	.4	*	.0		4.5	8.1	2.5	4.1	6.4	4.8
S	2.3	2.5	.5	*	.0		5.3	8.6	4.7	4.8	5.1	6.4
SW	3.1	2.9	.2	*	.0		6.2	7.5	7.0	5.1	4.5	7.9
W	6.2	10.4	1.5	.2	*		18.3	9.3	24.3	17.9	12.7	17.9
NW	8.8	20.5	4.7	.6	*		34.6	10.7	41.5	35.1	28.9	33.0
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	5.1						5.1	.0	3.0	6.6	7.0	4.4
TOT OBS	5343	6780	1209	127	2	13461		8.8	3623	2496	3506	3836
TOT PCT	39.7	50.4	9.0	.9	*		100.0		100.0	100.0	100.0	100.0

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	3.0	9.7	48.7	34.2	4.2	.3	.0	9.8	100.0	3623
06&09	6.6	9.1	50.5	29.9	3.8	.1	.0	9.1	100.0	2496
12&15	7.0	15.7	51.5	22.9	2.7	.2	.0	7.9	100.0	3506
18&21	4.4	11.8	54.6	26.7	2.3	.2	.0	8.5	100.0	3836
TOT	684	1579	6922	3814	433	29	0	8.8		13461
PCT	5.1	11.7	51.4	28.3	3.2	.2	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	8.8	1.3	2.7	1.8		2.7
NE	3.7	.5	.9	.7		2.4
E	2.8	.4	.9	.9		3.1
SE	1.2	.5	1.2	1.6		5.0
S	1.6	.6	1.5	2.0		5.1
SW	2.1	.7	1.7	1.5		4.4
W	8.0	2.1	5.3	3.2		3.8
NW	17.6	4.1	8.3	5.0		3.3
VAR	.0	.0	.0	.0		.0
CALM	2.6	.3	.9	1.0		3.2
TOT OBS	4132	899	1989	1508	8528	3.5
TOT PCT	48.5	10.5	23.3	17.7	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.3	*	.2	.4	1.2	.6	.1	*	.1	.2	11.4	
NE	.1	.0	.1	.1	.3	.2	.1	*	*	.1	4.8	
E	.2	.0	*	.1	.5	.3	*	*	*	.1	3.7	
SE	.1	.0	.1	.3	.9	.5	.1	*	*	.1	2.3	
S	.1	*	.1	.4	1.1	.7	.1	.1	*	.1	2.8	
SW	.1	*	.1	.4	1.0	.6	.1	*	*	.1	3.7	
W	.3	*	.2	.9	2.6	1.4	.2	*	.1	.3	12.5	
NW	.4	*	.5	1.6	4.1	1.9	.4	.1	.1	.5	25.4	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.4	.0	.1	.2	.4	.2	*	*	*	.1	3.4	
TOT OBS	168	10	122	368	1040	561	103	30	35	141	5950	8528
TOT PCT	2.0	.1	1.4	4.3	12.2	6.6	1.2	.4	.4	1.7	69.8	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM) * OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >50YD	* OR >0
* OR >6500	.9	1.8	2.0	2.0	2.0	2.0	2.0	2.1
* OR >5000	1.0	2.2	2.4	2.4	2.4	2.4	2.4	2.4
* OR >3500	1.6	3.3	3.6	3.6	3.6	3.6	3.6	3.6
* OR >2000	5.3	9.7	10.1	10.2	10.2	10.2	10.2	10.2
* OR >1000	11.1	21.0	22.2	22.3	22.3	22.3	22.3	22.4
* OR >600	12.6	24.6	26.4	26.6	26.7	26.7	26.7	26.7
* OR >300	13.0	25.6	27.7	28.0	28.1	28.1	28.2	28.2
* OR >150	13.0	25.7	27.8	28.2	28.2	28.2	28.3	28.3
* OR > 0	13.1	25.8	28.2	28.7	28.9	29.1	29.6	30.3
TOTAL	1120	2216	2422	2460	2477	2501	2542	2597

TOTAL NUMBER OF OBS: 8582 PCT FREQ NH <5/8: 69.7

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
38.3	8.9	13.5	5.2	3.8	4.4	7.8	4.9	11.5	1.8	8849

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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	PCP	.0	.0	*	*	*	*	*	*	.0	*	.1	
<1/2	NO PCP	.3	.1	.1	.1	.2	.1	.3	.4	.0	.3	2.0	
	TOT %	.3	.1	.1	.1	.2	.1	.3	.5	.0	.4	2.1	
	PCP	.0	.0	.0	*	*	*	*	*	.0	.0	.1	
1/2<1	NO PCP	.1	.1	.1	*	*	.1	.2	.1	.0	*	.6	
	TOT %	.1	.1	.1	*	*	.1	.2	.1	.0	*	.7	
	PCP	.0	.0	*	*	*	*	*	*	.0	.0	.1	
1<2	NO PCP	.3	.2	.1	.2	.1	.1	.2	.3	.0	.2	1.5	
	TOT %	.3	.2	.1	.2	.1	.1	.2	.3	.0	.2	1.7	
	PCP	*	*	*	.1	.1	.1	.1	*	.0	.0	.5	
2<5	NO PCP	.8	.4	.4	.4	.3	.4	1.0	1.7	.0	.4	5.7	
	TOT %	.8	.4	.4	.5	.5	.5	1.1	1.8	.0	.4	6.2	
	PCP	.1	.1	.1	.2	.2	.2	.2	.1	.0	*	1.1	
5<10	NO PCP	5.1	2.2	1.9	1.5	1.9	2.4	6.7	11.3	.0	1.7	34.7	
	TOT %	5.2	2.2	2.0	1.7	2.2	2.6	6.9	11.4	.0	1.7	35.8	
	PCP	*	*	*	.1	.1	*	.1	.1	.0	*	.4	
10+	NO PCP	7.8	3.6	2.5	2.0	2.3	2.9	9.7	20.5	.0	1.8	53.2	
	TOT %	7.8	3.6	2.5	2.1	2.4	3.0	9.8	20.6	.0	1.8	53.6	
	TOT OBS												12942
	TOT PCT	14.4	6.6	5.2	4.5	5.3	6.3	18.4	34.6	.0	4.5	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	0-3	.1	*	*	*	*	*	.1	.1	.0	.4	.8	
<1/2	4-10	.2	.1	.1	.1	.1	.1	.2	.3	.0		1.1	
	11-21	*	*	*	*	*	*	*	.1	.0		.2	
	22+	*	.0	.0	.0	.0	.0	*	*	.0		*	
	TOT %	.3	.1	.1	.1	.2	.1	.3	.5	.0	.4	2.1	
	0-3	*	*	*	*	*	*	*	*	.0	*	.2	
1/2<1	4-10	*	*	*	*	*	*	.1	*	.0		.3	
	11-21	*	.0	.0	.0	*	*	.1	*	.0		.1	
	22+	.0	*	*	*	*	.0	*	*	.0		.1	
	TOT %	.1	.1	.1	*	*	.1	.2	.1	.0	*	.7	
	0-3	.1	.1	*	.1	*	*	*	.1	.0	.2	.7	
1<2	4-10	.1	.1	.1	.1	.1	.1	.1	.3	.0		.9	
	11-21	*	*	*	*	*	*	.1	.1	.0		.3	
	22+	.0	*	*	*	*	*	.0	*	.0		*	
	TOT %	.3	.2	.1	.2	.1	.1	.3	.4	.0	.2	1.9	
	0-3	.2	.1	.1	.1	.1	.1	.2	.3	.0	.4	1.7	
2<5	4-10	.5	.2	.2	.2	.3	.3	.7	1.0	.0		3.3	
	11-21	.2	*	.1	.1	.1	.1	.2	.5	.0		1.1	
	22+	.0	.0	*	*	*	*	*	*	.0		.2	
	TOT %	.8	.4	.4	.5	.5	.5	1.1	1.8	.0	.4	6.3	
	0-3	.8	.5	.4	.4	.3	.4	.7	.8	.0	1.7	6.1	
5<10	4-10	2.8	1.3	1.2	.8	1.2	1.5	3.8	5.7	.0		18.3	
	11-21	1.4	.3	.4	.4	.5	.5	1.9	4.0	.0		9.6	
	22+	.1	*	*	.1	.1	*	.2	.6	.0		1.2	
	TOT %	5.1	2.2	2.0	1.6	7.1	2.6	6.7	11.2	.0	1.7	35.2	
	0-3	.8	.6	.5	.4	.3	.5	.8	1.1	.0	2.1	7.2	
10+	4-10	4.2	2.1	1.5	1.2	1.4	1.9	5.4	9.7	.0		27.5	
	11-21	2.5	.8	.5	.5	.7	.6	3.2	8.5	.0		17.2	
	22+	.2	.1	.1	*	*	*	.3	1.2	.0		2.0	
	TOT %	7.8	3.6	2.5	2.1	2.4	3.0	9.8	20.6	.0	2.1	53.9	
	TOT OBS												13274
	TOT PCT	14.4	6.6	5.1	4.5	5.3	6.3	18.3	34.6	.0	4.9	100.0	

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00&03	1.6	.3	1.1	3.7	10.1	5.6	.7	.3	.2	2.4	26.1	73.9	2171
06&09	2.2	*	1.7	3.9	10.7	6.4	1.0	.5	.6	1.4	28.4	71.6	2052
12&15	2.2	*	1.4	4.8	13.3	7.2	1.5	.4	.3	.8	31.9	68.1	2122
18&21	1.8	.1	1.6	4.8	13.4	6.7	1.4	.2	.5	1.8	32.3	67.7	2418
TOT	169	10	126	377	1046	566	103	30	35	142	2604	6159	8763
PCT	1.9	.1	1.4	4.3	11.9	6.5	1.2	.3	.4	1.6	29.7	70.3	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00&03	1.5	.7	1.7	6.6	36.8	52.8	3601
06&09	2.3	.5	.6	4.4	35.6	56.7	2480
12&15	3.0	.9	2.6	5.5	35.1	52.8	3475
18&21	1.7	.6	2.3	8.2	33.2	53.9	3852
TOT	281	96	255	852	4707	7217	13408
PCT	2.1	.7	1.9	6.4	35.1	53.8	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET, NH >4/8), BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	1.7	3.6	12.0	18.5	69.4	2120
06&09	2.3	4.8	11.7	19.5	68.8	2027
12&15	2.3	4.5	12.2	23.0	64.8	2088
18&21	2.0	4.3	16.4	22.6	51.0	2347
TOT	178	369	1132	1800	5630	8582
PCT	2.1	4.3	13.2	21.0	65.8	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
85/89	*	.0	.0	.0	.0	.0	.0	.0	1	*
80/84	.1	.1	*	*	*	.0	.0	.0	27	.3
75/79	.2	.2	.1	.2	.1	.1	*	*	109	1.0
70/74	.3	.3	.6	.9	1.0	.6	.4	.2	463	4.3
65/69	.2	.4	1.0	1.7	3.1	6.1	6.1	2.8	2271	21.3
60/64	.1	.3	1.0	2.6	8.0	15.0	17.1	7.9	5543	51.9
55/59	*	.1	.6	1.1	2.3	4.6	6.2	4.0	2015	18.9
50/54	*	.0	.1	.2	.4	.3	.4	.5	211	2.0
45/49	.0	.0	*	.0	*	.1	.1	.1	29	.3
40/44	.0	.0	.0	.0	.0	.0	*	.0	1	*
TOTAL	97	141	369	716	1586	2865	3228	1668	10670	100.0
PCT	.9	1.3	3.5	6.7	14.9	26.9	30.3	15.6		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.0	.0	.0	.0	.0	*	.0	.0
*	*	*	*	*	*	*	.1	.0	*
.1	.2	.1	*	.1	*	.1	.3	.0	*
.5	.2	.3	.1	.1	.3	.9	1.8	.0	.1
3.1	1.4	1.0	.8	1.3	1.6	3.8	7.4	.0	.9
7.3	3.2	2.2	2.3	3.0	3.4	9.6	18.9	.0	1.9
2.6	1.2	1.1	1.0	.9	1.0	3.7	6.3	.0	1.0
.4	.4	.3	.2	.1	*	.1	.3	.0	.1
.1	*	*	*	*	*	*	.1	.0	*
.0	.0	.0	.0	.0	.0	.0	*	.0	.0
14.1	6.6	5.1	4.6	5.5	6.4	18.2	35.2	.0	4.2

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00&03	85	76	71	63	57	54	49	63.2	3638
06&09	82	69	66	62	57	54	49	61.5	2511
12&15	82	69	66	61	54	50	44	60.5	3528
18&21	84	77	72	63	57	55	51	63.8	3875
TOT	85	75	70	62	56	52	44	62.4	13552

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00&03	.9	11.5	16.3	26.7	30.7	13.8	76	2979
06&09	.2	5.9	13.5	27.1	33.5	19.8	79	1893
12&15	.5	10.2	12.2	25.1	32.8	19.3	78	2796
18&21	1.7	16.2	16.7	28.2	25.4	11.9	73	3099
TOT	98	1240	1600	2882	3253	1694	76	10767

PERIOD: (PRIMARY) 1942-1973
(OVER-ALL) 1861-1973

AREA 0032 SAN DIEGO
32.6N 118.0W

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	45 48	49 52	53 56	57 60	61 64	65 68	69 72	73 76	77 80	81 84	85 88	TOT	W FOG	WO FOG
23/25	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	.0	2	.0	*
20/22	.0	.0	.0	.0	.0	.0	.0	.0	*	*	*	9	.0	.1
17/19	.0	.0	.0	.0	.0	*	.0	*	.1	*	.0	17	.0	.1
14/16	.0	.0	.0	.0	*	*	*	.2	.2	*	.0	60	*	.5
11/13	.0	.0	.0	.0	*	*	.2	.4	.1	*	.0	89	*	.7
9/10	.0	.0	.0	*	.1	.2	.7	.3	.1	*	.0	161	.0	1.4
7/8	.0	.0	.0	*	.2	.8	.9	.4	*	.0	.0	282	.1	2.3
6	.0	.0	*	*	.3	.9	.5	.1	.0	.0	.0	222	.1	1.8
5	.0	.0	.0	.1	.5	1.4	.4	*	.0	.0	.0	291	.2	2.3
4	.0	.0	*	.2	1.4	1.6	.5	*	.0	.0	.0	446	.2	3.6
3	.0	.0	.0	.3	1.6	2.0	.6	*	.0	.0	.0	505	.2	4.1
2	.0	.0	.1	.6	3.2	2.4	.2	.0	.0	.0	.0	779	.4	6.1
1	.0	*	.1	1.0	4.2	2.2	.2	.0	.0	.0	.0	907	.4	7.3
0	.0	.0	.1	2.8	6.2	2.1	.1	*	.0	.0	.0	1344	.6	10.7
-1	.0	.0	.1	2.7	5.7	1.8	.1	.0	.0	.0	.0	1243	.5	10.0
-2	.0	.0	.4	4.2	5.8	1.1	*	.0	.0	.0	.0	1353	.8	10.7
-3	.0	*	.4	3.9	4.8	1.0	.1	.0	.0	.0	.0	1221	.6	9.7
-4	.0	.0	.6	3.9	3.1	.3	.0	.0	.0	.0	.0	943	.6	7.4
-5	.0	*	.6	2.9	2.5	.4	*	.0	.0	.0	.0	758	.5	5.9
-6	.0	.1	.8	2.1	1.6	.1	.0	.0	.0	.0	.0	537	.5	4.2
-7/-8	.0	.2	1.0	1.5	.9	*	.0	.0	.0	.0	.0	423	.3	3.3
-9/-10	*	.2	.4	.6	.2	.0	*	.0	.0	.0	.0	165	.2	1.2
-11/-13	*	.1	.1	.2	*	.0	.0	.0	.0	.0	.0	50	.1	.4
-14/-16	*	*	.0	*	*	*	.0	.0	.0	.0	.0	12	*	.1
-17/-19	*	*	.0	*	.0	.0	.0	.0	.0	.0	.0	3	*	*
-20/-22	.0	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	1	.0	*
TOTAL	7	79	553	3219	3019	2179	528	178	59	15	1	11837	729	11108
PCT	.1	.7	4.7	27.2	42.4	18.4	4.5	1.5	.5	.1	*	100.0	6.2	93.8

PERIOD: (OVER-ALL) 1963-1973

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.9	1.8	.2	.0	.0	.0	2.8
1-2	.5	3.8	1.9	.0	.0	.0	6.2
3-4	.1	1.3	1.3	.1	.0	.0	2.7
5-6	.0	.1	.3	*	.0	.0	.4
7	.0	.1	.2	*	*	.0	.3
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.5	6.9	3.8	.1	*	.0	12.4

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.4	1.1	.1	.0	.0	.0	1.5
1-2	.2	2.0	.6	.0	.0	.0	2.9
3-4	.0	.3	.4	*	.0	.0	.8
5-6	.0	*	*	*	.0	.0	.1
7	.0	*	.0	.0	.0	.0	*
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.6	3.5	1.1	*	.0	.0	5.3

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	1.2	*	.0	.0	.0	1.6
1-2	.1	1.3	.6	.0	.0	.0	2.0
3-4	.0	.3	.3	.1	.0	.0	.7
5-6	.0	.0	*	.1	.0	.0	.1
7	.0	.0	*	.0	.0	.0	*
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.4	2.8	1.0	.1	.0	.0	4.4

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	1.0	.1	.0	.0	.0	1.3
1-2	.1	1.3	.8	.0	.0	.0	2.1
3-4	.0	.3	1.0	.1	.0	.0	1.4
5-6	.0	*	.1	*	.0	.0	.1
7	.0	*	.1	.0	.0	.0	.1
8-9	.0	.0	*	*	.0	.0	*
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	2.6	1.9	.2	.0	.0	5.1

PERIOD: (OVER-ALL) 1963-1973 NOVEMBER AREA 0032 SAN DIEGO

TABLE 18 (CONT) 32.6N 118.0W

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

S

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	1.1	.3	.0	.0	.0	1.5
1-2	.2	1.5	.8	.0	.0	.0	2.5
3-4	*	.6	.7	.1	.0	.0	1.4
5-6	.0	.1	.2	.1	.0	.0	.4
7	.0	.0	*	*	.0	.0	.1
8-9	.0	.0	.1	.0	.0	.0	.1
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.4	3.3	2.0	.3	.0	.0	5.9

SW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.5	1.4	*	.0	.0	.0	1.9
1-2	.5	1.6	.7	.0	.0	.0	2.7
3-4	*	.4	.6	.1	.0	.0	1.1
5-6	.0	*	.2	*	.0	.0	.2
7	.0	.0	.1	.0	.0	.0	.1
8-9	.0	.0	*	.0	.0	.0	*
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.0	3.4	1.6	.1	.0	.0	6.0

W

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.6	2.3	.1	.0	.0	.0	3.0
1-2	.5	5.8	2.7	.0	.0	.0	9.0
3-4	.1	1.8	2.4	.3	.0	.0	4.7
5-6	*	*	.5	.1	.0	.0	.7
7	.0	.0	.2	.2	*	.0	.5
8-9	.0	.0	*	.0	.0	.0	*
10-11	.0	.0	*	*	*	.0	.1
12	.0	.0	.0	.0	*	.0	*
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.3	10.0	5.9	.7	.1	.0	18.0

NW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.7	3.1	.1	.0	.0	.0	3.8	
1-2	.8	10.2	7.0	.0	.0	.0	17.9	
3-4	.3	3.6	5.8	.8	.0	.0	10.5	
5-6	.1	.8	2.1	.5	.0	.0	3.5	
7	.0	.1	1.2	.6	.1	.0	2.0	
8-9	.0	*	.1	.3	*	.0	.4	
10-11	.0	*	*	.1	*	.0	.2	
12	.0	.0	.1	*	*	.0	.1	
13-16	.0	.0	.0	*	.0	.0	*	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	1.7	17.8	16.4	2.3	.2	.0	38.5	95.6

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	8.1	12.9	.8	.0	.0	.0	21.8	
1-2	3.0	27.4	14.9	.0	.0	.0	45.3	
3-4	.6	8.6	12.4	1.6	.0	.0	23.3	
5-6	.1	1.1	3.4	.8	.0	.0	5.4	
7	.0	.2	1.7	.9	.2	.0	3.1	
8-9	.0	*	.2	.3	*	.0	.8	
10-11	.0	*	.1	.2	.1	.0	.3	
12	.0	.0	.1	*	*	.0	.2	
13-16	.0	.0	.0	*	.0	.0	*	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
								3158
TOT PCT	11.8	50.3	33.6	3.9	.3	.0	100.0	

PERIOD: (OVER-ALL) 1949-1973 TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	2.8	24.7	19.8	4.8	2.1	.5	.2	.2	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3702	3
6-7	.1	3.4	8.1	3.7	1.9	.7	.3	.2	*	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	1244	4
8-9	*	1.5	1.9	1.4	1.1	.6	.5	.2	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	488	5
10-11	.0	.7	.7	.7	.5	.3	.1	.1	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	209	5
12-13	.0	.0	.4	.1	.1	.1	.1	*	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	58	6
>13	.0	.0	.0	.1	.1	*	*	.0	*	*	*	.0	.0	.0	.0	.0	.0	.0	.0	20	8
INDET	12.0	1.8	.6	.2	.1	.1	*	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1002	1
TOTAL	1003	2169	2117	742	402	144	82	48	13	2	1	0	0	0	0	0	0	0	0	6723	3
PCT	14.9	32.3	31.5	11.0	6.0	2.1	1.2	.7	.2	*	*	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

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TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	1.0	.0	.3	.0	.0	.0	.0	1.3	*	.1	6.3	.2	7.7		.1	84.3
NE	3.5	.5	.6	.0	.0	.0	.0	4.6	.4	.1	7.1	.0	7.5		.2	80.1
E	5.5	.7	.8	.0	.0	.0	.0	6.8	.7	.0	5.9	.0	8.4		.0	78.1
SE	7.4	1.4	2.1	.0	.0	.0	.2	10.5	.8	.1	4.8	.1	6.8		*	76.9
S	9.7	.6	3.9	.0	.0	.0	.0	13.1	1.2	.1	7.2	.3	6.1		.1	71.9
SW	5.6	1.4	3.3	.0	.0	.0	.0	9.7	2.3	.0	6.9	.6	6.8		.0	73.7
W	1.3	1.0	1.5	.0	.0	.0	.0	3.4	1.1	.0	6.5	.1	4.1		.1	84.6
NW	.5	.2	.3	.0	.0	.0	.0	1.0	.7	.0	4.8	.2	5.1		.0	88.2
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	.0
CALM	.4	.0	.7	.0	.0	.0	.0	1.1	.0	.2	15.7	.9	14.6		.0	67.3
TOT PCT	2.6	.5	1.1	.0	.0	.0	*	4.0	.8	*	6.4	.2	6.6		.1	81.9
TOT OBS:	9733															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00&03	2.7	.5	.8	.0	.0	.0	.0	3.9	.6	*	4.6	.2	6.2		*	84.4
06&09	1.8	.5	1.7	.0	.0	.0	.0	3.8	1.0	.1	7.4	.1	4.2		.1	83.4
12&15	2.9	.6	1.1	.0	.0	.0	*	4.5	.8	.1	7.6	.3	6.9		*	79.7
18&21	2.6	.5	1.2	.0	.0	.0	.0	3.9	.6	.0	6.6	.3	8.2		.1	80.4
TOT PCT	2.6	.5	1.1	.0	.0	.0	*	4.0	.8	*	6.4	.2	6.6		.1	81.9
TOT OBS:	9858															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	2.2	8.0	4.2	.4	.1	.0		14.9	8.9	12.1	13.6	18.9	16.4	18.3	14.6	16.5	11.5
NE	1.8	4.3	1.7	.4	.0	.0		8.1	8.1	4.0	7.4	6.3	9.2	9.7	12.6	11.6	6.3
E	1.5	3.7	1.3	.2	*	.0		6.7	7.6	2.9	5.4	4.7	6.6	6.3	13.1	9.4	5.9
SE	1.4	3.7	1.2	.2	*	.0		6.5	7.5	4.3	8.3	3.8	5.4	5.7	12.1	9.7	7.0
S	1.0	3.5	1.2	.2	.0	.0		5.9	8.1	6.2	4.9	5.1	4.6	4.2	5.8	5.3	9.1
SW	1.2	3.5	1.4	.3	*	.0		6.4	8.4	7.7	7.7	5.9	4.4	4.6	5.1	5.4	8.8
W	1.8	8.3	4.6	.7	*	.0		15.4	9.5	19.9	18.3	14.7	16.6	13.6	9.5	14.0	16.2
NW	2.7	14.9	10.6	1.8	.2	.0		30.1	10.7	39.5	28.8	35.1	28.4	30.4	17.8	25.5	30.2
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	6.1							6.1	.0	3.2	5.5	5.5	8.5	7.4	9.3	6.5	5.0
TOT OBS	2010	5087	2673	420	31	0	10221		8.7	2007	902	1168	576	1325	1417	1365	1461
TOT PCT	19.7	49.8	26.2	4.1	.3	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	6.0	7.6	1.2	.1	*		14.9	8.9	12.6	18.1	16.4	13.9
NE	4.1	3.3	.7	.1	.0		8.1	8.1	5.1	7.2	11.2	8.8
E	3.6	2.5	.5	.1	.0		6.7	7.6	3.7	5.3	9.8	7.6
SE	3.5	2.6	.4	.1	.0		6.5	7.5	5.5	4.3	9.0	6.4
S	2.9	2.4	.5	*	.0		5.9	8.1	5.8	5.0	5.0	7.3
SW	3.1	2.6	.6	.1	.0		6.4	8.4	7.7	5.4	4.9	7.2
W	5.7	7.9	1.7	.1	.0		15.4	9.5	19.4	15.3	11.5	18.1
NW	8.7	16.3	4.5	.6	*		30.1	10.7	36.2	32.9	23.9	27.9
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	6.1						6.1	.0	4.0	6.5	8.4	5.7
TOT OBS	4436	4623	1037	124	1	10221		8.7	2909	1744	2742	2826
TOT PCT	43.4	45.2	10.1	1.2	*		100.0		100.0	100.0	100.0	100.0

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	4.0	12.1	50.4	29.2	3.9	.4	.0	9.1	100.0	2909
06&09	6.5	10.3	47.5	29.8	5.4	.5	.0	9.5	100.0	1744
12&15	8.4	18.0	46.6	22.8	4.0	.2	.0	7.9	100.0	2742
18&21	5.7	12.9	53.6	24.1	3.6	.1	.0	8.3	100.0	2826
TOT	680	1390	5087	2673	420	31	0	8.7		10221
PCT	6.1	13.6	49.8	26.2	4.1	.3	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	10.1	1.8	2.7	2.1		2.7
NE	4.5	.9	1.5	.9		2.8
E	2.9	.7	1.3	1.4		3.7
SE	1.6	.4	1.4	1.1		4.5
S	1.7	.4	1.3	1.4		4.5
SW	1.6	.6	1.5	2.2		5.2
W	6.2	2.0	4.7	2.9		4.1
NW	15.9	4.2	8.0	4.6		3.4
VAR	.0	.0	.0	.0		.0
CALM	2.8	.6	.9	1.2		3.4
TOT OBS	2830	693	1403	1061	5987	3.6
TOT PCT	47.3	11.6	23.4	17.7	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 2499	2500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.3	.1	.1	.5	.9	.6	.2	*	.1	.2	13.7	
NE	.2	.0	.1	.1	.4	.5	.1	.1	*	.2	6.3	
E	.2	*	.1	.2	.5	.5	.1	*	.1	.1	4.4	
SE	.1	*	.2	.2	.6	.3	.2	.1	.1	.1	2.7	
S	.2	*	.2	.3	.5	.5	.1	.1	.1	.1	2.6	
SW	.3	*	.3	.4	1.2	.6	.1	*	*	.1	2.9	
W	.3	*	.2	.7	2.3	1.4	.3	.1	.1	.1	10.1	
NW	.5	.1	.3	1.3	3.4	2.0	.5	.2	.1	.4	24.0	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.5	.0	.1	.1	.1	.3	.1	.1	.1	.1	4.0	
TOT OBS	149	16	90	233	590	403	101	38	44	85	4238	5987
TOT PCT	2.5	.3	1.5	3.9	9.9	6.7	1.7	.6	.7	1.4	70.8	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM) * OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >50YD	* OR >0
* OR >6500	.9	1.8	2.1	2.1	2.1	2.1	2.1	2.2
* OR >5000	1.3	2.4	2.7	2.8	2.8	2.8	2.8	2.8
* OR >3500	2.3	4.1	4.5	4.5	4.5	4.5	4.5	4.5
* OR >2000	6.0	10.4	11.1	11.2	11.2	11.2	11.2	11.2
* OR >1000	11.2	19.5	20.8	21.0	21.1	21.1	21.1	21.1
* OR >600	13.0	22.9	24.5	24.8	24.9	24.9	25.0	25.0
* OR >300	13.3	23.8	25.9	26.2	26.4	26.4	26.5	26.5
* OR >150	13.4	24.0	26.1	26.4	26.6	26.6	26.7	26.7
* OR > 0	13.5	24.2	26.4	27.0	27.4	27.7	28.5	29.2
TOTAL	813	1463	1598	1631	1655	1672	1719	1765

TOTAL NUMBER OF OBS: 6042

PCT FREQ NH <5/8: 70.8

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
38.5	9.2	12.6	5.7	4.4	5.1	7.5	4.5	10.5	2.2	6177

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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	PCP	*	*	*	*	.1	*	*	.0	.0	.0	.1	
<1/2	NO PCP	.3	.2	.1	.1	.2	.1	.3	.4	.0	.4	2.1	
	TOT %	.3	.2	.1	.1	.2	.2	.3	.4	.0	.4	2.2	
	PCP	*	*	*	*	.1	.1	*	*	.0	.0	.3	
1/2<1	NO PCP	.1	.1	*	*	*	.1	.1	.2	.0	.1	.6	
	TOT %	.1	.1	.1	.1	.1	.2	.1	.2	.0	.1	.9	
	PCP	.0	.1	*	.1	.1	.1	*	*	.0	*	.4	
1<2	NO PCP	.3	.1	.1	.1	.1	.1	.2	.3	.0	.3	1.5	
	TOT %	.3	.2	.2	.2	.2	.2	.2	.3	.0	.3	2.0	
	PCP	*	.1	.1	.2	.2	.1	.1	.1	.0	.0	.9	
2<5	NO PCP	.7	.5	.3	.4	.3	.4	.7	1.2	.0	.5	5.0	
	TOT %	.7	.6	.5	.5	.5	.5	.8	1.3	.0	.5	5.8	
	PCP	.1	.1	.2	.2	.3	.2	.2	.1	.0	*	1.5	
5<10	NO PCP	4.7	2.6	2.6	2.3	2.0	2.5	5.3	9.1	.0	2.3	33.4	
	TOT %	4.8	2.8	2.7	2.5	2.3	2.7	5.5	9.2	.0	2.3	34.9	
	PCP	.1	*	.1	.1	.1	.1	.2	.1	.0	*	.7	
10+	NO PCP	8.7	4.2	3.1	2.9	2.6	2.7	8.6	18.7	.0	2.0	53.5	
	TOT %	8.8	4.3	3.2	3.1	2.7	2.8	8.8	16.8	.0	2.0	54.2	
	TOT OBS												9721
	TOT PCT	14.9	8.1	6.7	6.5	6.0	6.5	15.7	30.1	.0	5.6	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	0-3	.1	.1	.1	*	.1	*	.1	.1	.0	.4	1.1	
<1/2	4-10	.2	.1	*	.1	.1	.1	.2	.3	.0		1.0	
	11-21	*	.0	.0	*	*	*	*	*	.0		.1	
	22+	.0	.0	.0	.0	*	*	*	.0	.0		.1	
	TOT %	.3	.2	.1	.1	.2	.2	.3	.4	.0	.4	2.3	
	0-3	*	*	*	*	*	*	*	*	.0	.1	.3	
1/2<1	4-10	.1	.1	*	.1	*	.1	.1	.1	.0		.5	
	11-21	*	*	*	*	*	.1	*	*	.0		.2	
	22+	.0	.0	.0	.0	.0	*	.0	*	.0		*	
	TOT %	.1	.1	.1	.1	.1	.2	.1	.2	.0	.1	1.0	
	0-3	.1	*	.1	*	.1	.1	.1	.1	.0	.3	.8	
1<2	4-10	.2	.1	.1	.1	*	.1	.2	.2	.0		1.0	
	11-21	*	.0	*	.1	.1	.1	*	.1	.0		.4	
	22+	.0	*	*	*	*	*	.0	.0	.0		.1	
	TOT %	.3	.2	.2	.2	.2	.2	.3	.4	.0	.3	2.3	
	0-3	.2	.2	.1	.1	.1	.1	.2	.3	.0	.5	1.8	
2<5	4-10	.4	.4	.3	.3	.2	.2	.5	.7	.0		2.9	
	11-21	.1	.1	.1	.1	.1	.1	.2	.3	.0		1.0	
	22+	.0	*	*	*	*	*	*	*	.0		.1	
	TOT %	.7	.6	.5	.5	.5	.5	.8	1.3	.0	.5	5.8	
	0-3	.8	.7	.6	.6	.4	.5	.7	.9	.0	2.3	7.7	
5<10	4-10	2.6	1.4	1.5	1.3	1.2	1.4	3.1	4.3	.0		16.7	
	11-21	1.2	.5	.5	.5	.5	.3	1.4	3.2	.0		8.4	
	22+	.1	.1	*	.1	.1	.1	.2	.7	.0		1.4	
	TOT %	4.7	2.7	2.7	2.5	2.3	2.6	5.4	9.0	.0	2.3	34.1	
	0-3	.9	.7	.6	.6	.4	.4	.7	1.0	.0	2.3	7.8	
10+	4-10	4.7	2.3	1.8	1.9	1.8	1.7	4.4	8.2	.0		27.8	
	11-21	2.9	1.1	.7	.5	.4	.6	3.0	7.0	.0		16.2	
	22+	.3	.3	.1	.1	*	*	.6	1.3	.0		2.7	
	TOT %	8.8	4.4	3.2	3.1	2.7	2.8	8.7	18.5	.0	2.3	54.4	
	TOT OBS												10049
	TOT PCT	14.9	8.2	6.7	6.5	5.9	6.5	15.8	29.8	.0	5.9	100.0	

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00&03	2.0	.1	1.4	4.3	9.3	5.8	2.1	.8	1.0	2.1	29.0	71.0	1542
06&09	2.4	.3	1.5	3.3	9.2	6.1	1.4	.8	.8	1.0	26.8	73.2	1461
12&15	3.3	.3	1.3	4.2	11.4	7.3	1.6	.2	.3	1.1	31.4	68.6	1488
18&21	2.1	.2	1.9	3.7	9.1	7.2	1.7	.7	.6	1.4	28.7	71.3	1629
TOT	190	16	93	237	597	405	103	39	45	85	1772	4348	6120
PCT	2.5	.3	1.5	3.9	9.8	6.6	1.7	.6	.7	1.4	29.0	71.0	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00&03	1.7	.9	1.9	6.2	33.2	56.0	2906
06&09	2.2	.6	1.3	4.3	33.5	58.1	1734
12&15	3.3	1.3	3.9	6.2	36.4	49.6	2722
18&21	2.0	1.1	2.7	6.8	32.7	54.6	2816
TOT	235	106	241	614	3460	5522	10178
PCT	2.3	1.0	2.4	6.0	34.0	54.3	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET, NH >4/8), BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <3	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	2.1	4.5	12.9	20.0	67.2	1517
06&09	2.5	4.8	11.5	18.2	70.3	1446
12&15	3.5	6.1	13.7	20.9	65.4	1476
18&21	2.3	5.0	14.8	19.0	66.2	1603
TOT	156	307	800	1180	4062	6042
PCT	2.6	5.1	13.2	19.5	67.2	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
80/84	*	*	*	*	.0	.0	.0	.0	8	.1
75/79	.1	.1	.1	.1	*	*	.0	.0	44	.5
70/74	.2	.3	.4	.4	.2	.2	.1	*	134	1.6
65/69	.3	.4	.8	1.2	1.5	1.8	1.3	.6	656	8.0
60/64	.2	.8	1.6	3.2	6.3	9.5	11.7	5.1	3153	38.3
55/59	.1	.3	1.2	3.2	6.0	9.0	13.3	6.8	3277	39.8
50/54	*	.1	.8	1.2	1.8	1.5	2.7	1.7	807	9.8
45/49	*	.1	.1	.1	.2	.3	.3	.5	137	1.7
40/44	.0	.0	.0	*	.0	.0	*	.1	12	.1
TOTAL	78	179	408	779	1326	1825	2416	1217	8228	100.0
PCT	.9	2.2	5.0	9.5	16.1	22.2	29.4	14.8		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
	*	.0	.0	.0	.0	.0	*	.1	.0	.0
	.1	*	*	*	.0	*	.1	.3	.0	*
	.2	.1	.1	.1	.1	.1	.3	.7	.0	.1
	1.2	.6	.5	.3	.5	.7	1.1	2.7	.0	.4
	5.7	2.6	2.1	2.2	2.9	3.1	6.0	12.1	.0	1.7
	5.3	2.8	2.5	2.7	2.1	2.3	7.1	13.0	.0	2.1
	1.7	1.4	1.2	.9	.4	.4	.8	2.1	.0	1.0
	.3	.3	.2	.2	.1	.1	.1	.2	.0	.1
	.0	*	*	.0	*	.0	.1	*	.0	.0
	14.5	7.9	6.6	6.4	6.1	6.7	15.5	31.0	.0	5.4

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00&03	84	74	68	60	54	50	44	60.4	2918
06&09	73	66	64	59	53	50	45	58.8	1761
12&15	72	66	63	58	50	46	41	57.2	2765
18&21	81	74	69	61	55	50	41	61.0	2844
TOT	84	72	67	59	52	48	41	59.4	10288

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00&03	1.0	16.5	16.9	23.7	29.7	12.1	74	2455
06&09	.2	13.1	15.3	21.0	30.8	19.7	77	1323
12&15	.4	11.9	14.0	20.2	34.0	19.5	78	2233
18&21	1.9	23.2	17.6	23.0	23.3	10.9	71	2318
TOT	79	1382	1339	1845	2438	1246	75	8329

DECEMBER

PERIOD: (PRIMARY) 1937-1973
(OVER-ALL) 1875-1973

AREA 0032 SAN DIEGO
32.6N 118.0W

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	41 44	45 48	49 52	53 56	57 60	61 64	65 68	69 72	73 76	77 80	81 84	TOT	W FOG	WO FOG
23/25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	1	.0	*
20/22	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	*	2	.0	*
17/19	.0	.0	.0	.0	.0	.0	.0	.0	*	.1	*	16	.0	.2
14/16	.0	.0	.0	.0	*	.0	.0	*	.1	.1	*	25	.0	.3
11/13	.0	.0	.0	.0	*	*	.1	.3	.3	*	.0	70	*	.8
9/10	.0	.0	.0	*	*	.2	.3	.5	.1	.0	.0	101	*	1.1
7/8	.0	.0	.0	.0	.1	.3	1.1	.4	.1	.0	.0	183	*	2.0
6	.0	.0	.0	*	.1	.5	.6	.1	*	.0	.0	122	*	1.3
5	.0	.0	.0	*	.2	1.2	1.0	.1	*	.0	.0	230	.2	2.4
4	.0	.0	.0	.1	.6	1.8	.8	.1	.0	.0	.0	303	.1	3.3
3	.0	.0	.0	.1	.8	2.0	.8	.1	.0	.0	.0	340	.1	3.7
2	.0	.0	.0	.2	1.9	3.5	.6	.1	.0	.0	.0	563	.3	6.0
1	.0	.0	*	.3	2.5	3.6	.7	*	.0	.0	.0	638	.4	6.7
0	.0	.0	.0	.7	5.5	4.2	.6	.0	.0	.0	.0	989	.6	10.4
-1	.0	.0	*	.9	5.6	3.5	.3	.0	.0	.0	.0	919	.6	9.6
-2	.0	*	*	2.2	7.2	2.5	.1	.0	.0	.0	.0	1087	.8	11.3
-3	.0	.0	.1	2.2	5.7	1.7	.1	.0	.0	.0	.0	874	.7	9.0
-4	.0	*	.2	2.8	4.3	.8	*	.0	.0	.0	.0	720	.5	7.5
-5	.0	.0	.4	2.2	3.0	.6	*	.0	.0	.0	.0	556	.5	5.7
-6	.0	*	.6	1.7	1.6	.3	.0	.0	.0	.0	.0	378	.5	3.7
-7/-8	.0	.1	.9	2.2	1.6	.2	.0	.0	.0	.0	.0	447	.4	4.6
-9/-10	.0	.2	.8	1.0	.5	.0	.0	.0	.0	.0	.0	221	.3	2.1
-11/-13	*	.2	.8	.3	.1	*	.0	.0	.0	.0	.0	132	.1	1.4
-14/-16	*	.2	.1	.1	.0	.0	.0	.0	.0	.0	.0	39	*	.4
-17/-19	*	.1	*	*	.0	.0	.0	.0	.0	.0	.0	8	.0	.1
-20/-22	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	.0	*
TOTAL	4	76	358	1520	3701	2414	637	165	65	20	5	8965	576	8389
PCT	*	.8	4.0	17.0	41.3	26.9	7.1	1.8	.7	.2	.1	100.0	6.4	93.6

PERIOD: (OVER-ALL) 1963-1973

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.7	3.1	.3	.0	.0	.0	4.0
1-2	.5	4.5	2.7	.0	.0	.0	7.6
3-4	.1	1.1	1.9	.2	.0	.0	3.3
5-6	.0	.2	.3	.1	*	.0	.6
7	.0	.1	.3	.1	.0	.0	.6
8-9	.0	.0	*	.1	.0	.0	.2
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	*	.0	*
13-16	.0	.0	.0	.0	.1	.0	.1
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.3	9.0	5.5	.6	.2	.0	16.5

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.6	1.4	.1	.0	.0	.0	2.1
1-2	.2	1.8	.9	.0	.0	.0	3.0
3-4	*	.6	.8	.2	.0	.0	1.6
5-6	.0	.0	.2	.1	.0	.0	.3
7	.0	.0	.1	.0	.0	.0	.1
8-9	.0	.0	*	.0	.0	.0	*
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.9	3.8	2.0	.3	.0	.0	7.1

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.5	1.3	.1	.0	.0	.0	1.9
1-2	.2	1.4	.5	.0	.0	.0	2.1
3-4	.1	.1	.4	.0	.0	.0	.6
5-6	.0	*	.0	.1	.0	.0	.1
7	.0	.0	.1	.0	*	.0	.1
8-9	.0	*	.0	.0	.0	.0	*
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.8	2.9	1.0	.1	*	.0	4.9

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.9	.0	.0	.0	.0	1.0
1-2	.1	1.1	*	.0	.0	.0	1.2
3-4	.0	.3	.1	.0	.0	.0	.4
5-6	.0	*	.1	*	.0	.0	.1
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	*	.0	.0	.0	*
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.1	2.4	.3	*	.0	.0	2.8

PERIOD: (OVER-ALL) 1963-1973 DECEMBER AREA 0032 SAN DIEGO 32.6N 118.0W

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

	S							SW						
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.5	.9	.0	.0	.0	.0	1.4	.5	1.4	.0	.0	.0	.0	2.0
1-2	.1	.9	.3	.0	.0	.0	1.4	.2	1.3	.6	.0	.0	.0	2.1
3-4	*	.3	.1	.0	.0	.0	.5	.1	.3	.7	.3	.0	.0	1.5
5-6	.0	.1	.1	.0	.0	.0	.2	.0	.1	.4	.2	.0	.0	.8
7	.0	.0	.0	*	.0	.0	*	.0	.1	.1	.1	.0	.0	.3
8-9	.0	.0	*	.0	.0	.0	*	.0	.0	*	.0	*	.0	.1
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.7	2.2	.6	*	.0	.0	3.5	.8	3.3	1.9	.6	*	.0	6.6

	W							NW							TOTAL
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	PCT
<1	.6	1.9	.1	.0	.0	.0	2.6	.5	4.0	.2	.0	.0	.0	4.7	
1-2	.4	4.3	2.4	.0	.0	.0	7.1	.6	8.6	5.9	.0	.0	.0	15.1	
3-4	*	1.6	2.5	.7	.0	.0	4.8	.1	2.8	6.1	1.2	.0	.0	10.1	
5-6	.0	.3	.9	.2	.0	.0	1.3	.0	.6	2.1	.8	.1	.0	3.6	
7	.0	*	.2	.2	.0	.0	.5	.0	.1	1.4	.5	*	.0	2.1	
8-9	.0	.0	*	.0	*	.0	.1	.0	.0	.5	.4	.1	.0	1.0	
10-11	.0	*	.1	*	.0	.0	.2	.0	.0	.1	.2	.2	.0	.4	
12	.0	.0	.0	*	.0	.0	*	.0	*	.1	.1	*	.0	.2	
13-16	.0	.0	.0	*	.0	.0	*	.0	.0	.0	.1	.1	.0	.2	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	1.0	8.1	6.3	1.2	*	.0	16.6	1.1	16.1	16.5	3.3	.4	.0	37.4	95.3

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	8.5	15.0	.8	.0	.0	.0	24.3	
1-2	2.4	24.0	13.3	.0	.0	.0	39.7	
3-4	.4	7.1	12.6	2.6	.0	.0	22.7	
5-6	.0	1.2	4.2	1.5	.1	.0	7.0	
7	.0	.4	2.2	1.0	.1	.0	3.6	
8-9	*	*	.7	.6	.1	.0	1.5	
10-11	.0	*	.2	.2	.2	.0	.6	
12	.0	*	.1	.1	*	.0	.3	
13-16	.0	.0	.0	.1	.2	.0	.3	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	11.4	47.8	34.0	6.1	.7	.0	100.0	2506

PERIOD: (OVER-ALL) 1949-1973

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	2.3	19.4	19.8	4.7	1.8	.4	.1	*	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2415	3
6-7	*	3.5	7.6	4.5	2.8	1.1	.6	.2	.1	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	1016	4
8-9	.1	1.1	2.3	2.3	1.9	1.1	.5	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	475	5
10-11	.0	1.2	.8	.5	.6	.4	.2	.1	.1	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	201	5
12-13	.0	.0	.3	.2	.2	.1	.2	*	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	55	7
>13	.0	.0	.0	*	.1	.1	*	.1	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	24	9
INDET	12.1	2.2	.8	.3	.2	.1	.1	*	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	782	1
TOTAL	721	1363	1566	621	377	168	86	40	23	3	0	0	0	0	0	0	0	0	0	4968	3
PCT	14.5	27.4	31.5	12.5	7.6	3.4	1.7	.8	.5	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

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TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA				
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	.4	.1	.4	.0	.0	.0	.0	.9	.2	.1	7.4	.2	10.1	.1		81.2
NE	1.1	.2	.6	.0	.0	.0	.0	1.9	.3	.3	9.0	.2	11.9	*		76.6
E	1.5	.4	.9	.0	.0	.0	.0	2.6	.4	.1	9.6	.3	11.1	.1		75.8
SE	3.0	.7	1.5	.0	.0	.0	*	4.9	1.1	.1	7.6	.2	12.6	*		73.9
S	3.7	1.1	1.8	.0	.0	.0	*	6.3	1.0	.1	7.1	.2	11.0	*		74.2
SW	1.8	.8	1.4	.0	.0	.0	*	3.8	.8	.1	6.3	.2	10.4	*		78.4
W	.6	.4	.8	.0	.0	.0	*	1.7	.6	.1	5.3	.1	8.1	*		84.1
NW	.3	.2	.5	.0	.0	.0	*	1.0	.3	*	4.7	.1	7.6	*		86.2
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0
CALM	.3	.1	.6	.0	.0	.0	.1	1.0	.2	.2	14.9	.3	15.1	*		68.3
TOT PCT	.9	.4	.8	.0	.0	.0	*	1.9	.5	.1	6.1	.1	9.1	*		82.1
TOT OBS:160966																

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA				
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00&03	.9	.3	.4	.0	.0	.0	*	1.6	.3	.1	3.9	.1	8.8	*		85.2
06&09	.8	.3	.9	.0	.0	.0	*	1.9	.6	.2	5.8	.1	5.9	*		85.4
12&15	1.1	.4	1.2	.0	.0	.0	*	2.6	.5	.1	7.8	.2	9.0	*		79.8
18&21	.8	.4	.6	.0	.0	.0	*	1.7	.5	*	6.8	.2	11.6	*		79.2
TOT PCT	.9	.4	.8	.0	.0	.0	*	1.9	.5	.1	6.1	.1	9.1	*		82.1
TOT OBS:162296																

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	1.5	5.5	3.0	.3	*	*		10.2	8.9	6.8	9.5	11.7	10.7	12.6	13.0	11.5	7.2
NE	.9	2.1	.6	.1	*	.0		3.7	6.5	1.5	3.2	2.9	3.7	4.5	7.3	5.0	2.7
E	.8	1.9	.5	*	*	.0		3.3	6.3	1.1	2.0	2.6	3.4	4.0	6.9	4.8	2.2
SE	.9	2.3	.7	.1	*	*		4.0	6.9	2.1	3.5	3.2	3.7	3.9	7.1	5.2	3.6
S	1.1	3.6	1.0	.1	*	*		5.9	7.5	5.1	5.0	4.6	4.6	4.7	7.4	7.0	7.6
SW	1.4	5.2	1.4	.1	*	.0		8.2	7.4	8.9	8.3	6.1	6.9	5.6	7.6	8.2	12.2
W	2.1	13.1	8.2	.8	*	.0		24.3	9.8	31.6	27.7	22.8	25.1	19.7	15.8	20.7	29.3
NW	2.3	16.2	15.6	2.1	.1	*		36.4	11.3	41.2	37.8	41.8	36.2	39.0	28.3	33.0	32.6
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	4.1							4.1	.0	1.7	3.1	4.3	5.6	6.0	6.5	4.7	2.5
TOT OBS							166886		9.2	29893	15213	20483	10516	21936	20331	25610	22904
TOT PCT	15.1	50.1	31.0	3.6	.2	*		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	4.0	5.3	.8	.1	*		10.2	8.9	7.7	11.3	12.8	9.5
NE	2.1	1.4	.2	*	.0		3.7	6.5	2.0	3.1	5.9	3.9
E	2.0	1.2	.1	*	*		3.3	6.3	1.4	2.9	5.4	3.6
SE	2.2	1.5	.2	*	*		4.0	6.9	2.5	3.4	5.4	4.4
S	3.0	2.5	.3	*	*		5.9	7.5	5.1	4.6	6.0	7.3
SW	4.1	3.7	.3	*	.0		8.2	7.4	8.7	6.4	6.6	10.1
W	7.5	14.1	2.5	.2	*		24.3	9.8	30.3	23.6	17.9	24.7
NW	8.1	21.7	6.0	.5	*		36.4	11.3	40.1	39.9	33.8	32.8
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	4.1						4.1	.0	2.2	4.7	6.2	3.7
TOT OBS						166886		9.2	45106	30999	42267	48514
TOT PCT	37.0	51.6	10.4	.9	*		100.0		100.0	100.0	100.0	100.0

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	2.2	7.9	47.1	37.9	4.6	.2	*	10.3	100.0	45106
06&09	4.7	9.1	47.9	33.6	4.8	.2	.0	9.7	100.0	30999
12&15	6.2	15.9	50.4	24.3	3.0	.1	*	8.1	100.0	42267
18&21	3.7	10.8	53.9	28.9	2.6	.1	.0	8.8	100.0	48514
TOT								9.2		166886
PCT	4.1	11.0	50.1	31.0	3.6	.2	*		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	5.3	1.0	2.1	2.5		3.9
NE	1.9	.3	.7	.7		3.9
E	1.5	.3	.6	.9		4.3
SE	1.0	.3	.9	1.5		5.2
S	1.2	.4	1.3	2.4		5.5
SW	1.9	.7	1.8	2.9		5.2
W	8.5	2.5	5.9	7.5		4.4
NW	14.9	3.9	8.4	10.4		4.1
VAR	.0	.0	.0	.0		.0
CALM	1.6	.3	.8	1.5		4.6
TOT OBS					106472	4.4
TOT PCT	37.8	9.7	22.4	30.2	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.2	*	.2	.6	1.5	.7	.1	*	*	.1	7.2	
NE	.1	*	*	.1	.4	.2	*	*	*	.1	2.6	
E	.1	*	*	.2	.5	.3	*	*	*	*	2.1	
SE	.1	*	.1	.3	.9	.4	.1	*	*	.1	1.7	
S	.1	*	.1	.5	1.4	.7	.1	*	*	.1	2.1	
SW	.2	*	.2	.6	1.9	.9	.1	*	*	.1	3.2	
W	.4	*	.5	2.0	5.3	2.5	.3	.1	.1	.2	12.9	
NW	.5	.1	1.0	3.1	7.0	3.1	.5	.1	.1	.3	21.7	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.3	*	.1	.3	.8	.3	*	*	*	.1	2.2	
TOT OBS												106472
TOT PCT	2.0	.3	2.4	7.8	19.7	9.0	1.4	.4	.4	1.0	55.8	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM) * OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >50YD	* OR >0
* OR >6500	.7	1.3	1.4	1.4	1.4	1.4	1.4	1.4
* OR >5000	.9	1.7	1.8	1.8	1.8	1.8	1.8	1.8
* OR >3500	1.8	3.0	3.2	3.2	3.2	3.2	3.2	3.2
* OR >2000	7.2	11.9	12.2	12.2	12.2	12.2	12.2	12.2
* OR >1000	16.2	30.4	31.7	31.8	31.9	31.9	31.9	31.9
* OR >600	18.6	37.1	39.3	39.5	39.6	39.6	39.7	39.7
* OR >300	19.0	38.6	41.4	41.8	41.9	42.0	42.0	42.0
* OR >150	19.1	38.8	41.6	42.0	42.2	42.2	42.3	42.3
* OR > 0	19.2	39.0	42.0	42.6	43.1	43.3	43.8	44.2

TOTAL NUMBER OF OBS: 107121 PCT FREQ NH <5/8: 55.8

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
28.1	7.6	11.1	5.2	3.7	4.5	7.9	6.0	24.3	1.6 110671

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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	*	*	*	*	*	*	*	*	.0	*	.1	
	NO PCP	.2	.1	.1	.1	.1	.1	.2	.3	.0	.2	1.4	
	TOT %	.2	.1	.1	.1	.1	.1	.3	.4	.0	.2	1.5	
1/2<1	PCP	*	*	*	*	*	*	*	*	.0	*	.1	
	NO PCP	.1	*	*	*	.1	.1	.1	.2	.0	.1	.8	
	TOT %	.1	*	*	.1	.1	.1	.2	.2	.0	.1	.9	
1<2	PCP	*	*	*	*	*	*	*	*	.0	*	.2	
	NO PCP	.2	.1	.1	.1	.1	.2	.3	.4	.0	.1	1.5	
	TOT %	.2	.1	.1	.1	.2	.2	.3	.4	.0	.2	1.7	
2<5	PCP	*	*	*	.1	.1	.1	.1	.1	.0	*	.4	
	NO PCP	.6	.2	.2	.3	.4	.6	1.2	1.6	.0	.3	5.5	
	TOT %	.6	.3	.3	.3	.5	.6	1.3	1.7	.0	.3	5.9	
5<10	PCP	*	*	.1	.1	.2	.1	.2	.2	.0	*	.8	
	NO PCP	3.6	1.3	1.3	1.5	2.4	3.3	9.3	12.4	.0	1.5	36.6	
	TOT %	3.7	1.4	1.3	1.6	2.6	3.4	9.4	12.6	.0	1.5	37.4	
10+	PCP	*	*	*	.1	*	*	.1	.1	.0	*	.3	
	NO PCP	5.4	1.9	1.6	1.8	2.4	3.7	12.9	21.0	.0	1.5	52.3	
	TOT %	5.5	1.9	1.6	1.8	2.5	3.8	13.0	21.1	.0	1.5	52.6	
	TOT OBS												160870
	TOT PCT	10.2	3.8	3.3	4.0	5.9	8.2	24.4	36.3	.0	3.8	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.1	*	*	*	*	*	.1	.1	.0	.2	.5	
	4-10	.1	*	*	*	.1	.1	.2	.2	.0		.8	
	11-21	*	*	*	*	*	*	.1	.1	.0		.2	
	22+	*	.0	.0	*	*	*	*	*	.0		*	
	TOT %	.2	.1	.1	.1	.1	.1	.3	.4	.0	.2	1.5	
1/2<1	0-3	*	*	*	*	*	*	*	*	.0	.1	.3	
	4-10	.1	*	*	*	*	*	.1	.1	.0		.5	
	11-21	*	*	*	*	*	*	*	.1	.0		.2	
	22+	.0	*	*	*	*	*	*	*	.0		*	
	TOT %	.1	*	*	.1	.1	.1	.2	.3	.0	.1	.9	
1<2	0-3	.1	*	*	*	*	*	.1	.1	.0	.2	.6	
	4-10	.1	.1	*	.1	.1	.1	.2	.3	.0		1.0	
	11-21	*	*	*	*	*	*	.1	.1	.0		.3	
	22+	*	*	*	*	*	*	*	*	.0		*	
	TOT %	.2	.1	.1	.1	.2	.2	.4	.5	.0	.2	1.9	
2<5	0-3	.2	.1	.1	.1	.1	.2	.2	.2	.0	.4	1.5	
	4-10	.3	.1	.1	.2	.3	.4	.8	1.0	.0		3.3	
	11-21	.1	*	*	*	.1	.1	.3	.5	.0		1.1	
	22+	*	*	*	*	*	*	*	*	.0		.1	
	TOT %	.6	.3	.3	.4	.5	.7	1.3	1.8	.0	.4	6.1	
5<10	0-3	.6	.4	.3	.4	.5	.6	.8	.8	.0	1.6	5.9	
	4-10	2.0	.8	.8	.9	1.6	2.2	5.2	5.9	.0		19.3	
	11-21	1.0	.2	.2	.3	.4	.5	3.0	5.1	.0		10.6	
	22+	.1	*	*	*	.1	*	.2	.6	.0		1.1	
	TOT %	3.6	1.3	1.3	1.6	2.5	3.3	9.3	12.4	.0	1.6	36.9	
10+	0-3	.6	.4	.3	.4	.4	.6	.9	1.0	.0	1.7	6.2	
	4-10	2.9	1.1	.9	1.1	1.6	2.4	6.6	8.6	.0		25.2	
	11-21	1.8	.4	.3	.3	.5	.7	4.9	9.8	.0		18.7	
	22+	.2	*	*	*	*	*	.6	1.6	.0		2.6	
	TOT %	5.5	1.9	1.6	1.8	2.5	3.8	12.9	21.0	.0	1.7	52.6	
	TOT OBS												164883
	TOT PCT	10.2	3.8	3.3	4.0	5.9	8.2	24.3	36.3	.0	4.0	100.0	

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET,NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

HR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00&03	1.3	.2	1.9	6.6	16.6	7.4	1.3	.4	.5	1.3	37.5	62.5	27348
06&09	1.9	.2	2.2	6.9	17.8	8.3	1.2	.4	.4	.8	40.1	59.9	25165
12&15	2.6	.3	2.8	9.1	22.5	10.6	1.4	.4	.3	.8	50.8	49.2	25947
18&21	2.0	.3	2.4	8.0	20.4	9.3	1.5	.4	.4	1.1	45.7	54.3	30584
TOT													109044
PCT	1.9	.3	2.3	7.7	19.4	8.9	1.4	.4	.4	1.0	43.6	56.4	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00&03	1.0	.7	1.6	5.6	36.5	54.5	44897
06&09	1.5	.6	.7	3.8	37.3	56.1	30879
12&15	2.3	1.5	2.8	6.7	37.4	49.3	42033
18&21	1.4	1.0	2.3	7.6	36.1	51.6	48460
TOT							166269
PCT	1.5	.9	2.0	6.1	36.8	52.6	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET,NH >4/8),BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	1.3	3.8	13.3	26.9	59.8	26757
06&09	1.9	4.7	13.8	28.2	58.0	24854
12&15	2.7	6.3	18.3	34.8	46.9	25587
18&21	2.1	5.3	18.0	31.6	50.4	29923
TOT						107121
PCT	2.0	5.0	15.9	30.4	53.7	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
90/94	*	*	*	.0	.0	.0	.0	.0		*
85/89	*	*	*	*	*	.0	*	.0		*
80/84	*	*	*	*	*	*	*	*		.2
75/79	.1	.1	.1	.2	.2	.3	.1	*		1.0
70/74	.1	.1	.2	.4	1.0	1.6	1.4	.5		5.2
65/69	.1	.1	.3	.7	1.8	5.2	8.2	3.8		20.2
60/64	*	.2	.5	1.3	4.0	9.3	15.2	6.7		37.3
55/59	*	.1	.4	1.1	3.2	7.9	11.5	5.5		29.8
50/54	*	*	.2	.5	1.0	1.0	1.8	1.2		5.7
45/49	*	*	*	*	.1	.1	.1	.1		.5
40/44	.0	.0	*	*	*	*	*	*		.1
35/39	.0	.0	.0	*	.0	.0	.0	.0		*
TOTAL									133216	100.0
PCT	.3	.7	1.7	4.1	11.4	25.5	38.3	17.9		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
*	*	*	.0	.0	.0	*	*	.0	*
*	*	*	*	*	*	*	*	.0	*
*	*	*	*	*	*	*	.1	.0	*
.1	*	*	*	.1	.1	.2	.4	.0	*
.4	.2	.1	.2	.3	.5	1.4	1.9	.0	.2
1.8	.6	.5	.7	1.3	2.0	5.3	7.2	.0	.8
3.7	1.3	1.0	1.4	2.4	3.3	9.1	13.6	.0	1.3
3.2	1.2	1.1	1.3	1.7	2.1	7.0	11.2	.0	1.0
.8	.4	.4	.3	.2	.3	1.0	2.0	.0	.3
.1	.1	.1	.1	*	*	*	.1	.0	*
*	*	*	*	*	*	*	*	.0	*
.0	*	*	.0	.0	.0	.0	.0	.0	.0
10.2	3.8	3.3	4.0	6.0	8.3	24.1	36.5	.0	3.7

TABLE 15

MEANS,EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00&03	93	74	69	62	57	54	40	62.5	45227
06&09	86	68	66	60	56	53	43	60.4	31164
12&15	93	69	66	60	54	52	38	60.0	42529
18&21	94	74	70	62	57	54	39	62.8	48661
TOT	94	73	68	61	56	53	38	61.6	167581

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00&03	.4	7.2	12.8	27.1	37.4	15.1	78	37408
06&09	.1	3.7	8.5	22.2	42.9	22.6	82	23482
12&15	.1	4.6	8.5	21.7	41.1	24.0	82	33926
18&21	.6	9.2	14.3	29.1	33.8	12.9	77	39534
TOT	417	8364	15130	34376	51769	24294	79	134350

PERIOD: (PRIMARY) 1937-1974
(OVER-ALL) 1861-1974

TABLE 17

AREA 0032 SAN DIEGO
32.6N 118.0W

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	37 40	41 44	45 48	49 52	53 56	57 60	61 64	65 68	69 72	73 76	77 80	81 84	85 88	89 92	>92	TOT	W FOG	WO FOG
23/25	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	*	*	*	*	*	15	.0	*
20/22	.0	.0	.0	.0	.0	.0	*	*	*	*	*	*	*	*	*	51	*	*
17/19	.0	.0	.0	.0	.0	.0	*	*	*	*	*	*	*	*	.0	133	.0	.1
14/16	.0	.0	.0	.0	.0	*	*	*	.1	.1	*	*	*	*	*	405	*	.3
11/13	.0	.0	.0	.0	*	*	.1	.1	.2	.2	.1	*	*	.0	.0	1051	*	.7
9/10	.0	.0	.0	.0	*	*	.1	.3	.3	.1	.1	*	*	.0	.0	1422	*	.9
7/8	.0	.0	.0	*	*	.1	.4	.8	.4	.2	*	*	.0	.0	.0	2966	.1	1.9
6	.0	.0	.0	.0	*	.2	.5	.5	.3	.1	*	*	.0	.0	.0	2369	.1	1.5
5	.0	.0	*	*	.1	.3	.7	.8	.4	.2	*	*	.0	.0	.0	3571	.1	2.3
4	.0	.0	.0	*	.1	.5	1.3	.9	.5	.1	*	.0	.0	.0	.0	5015	.2	3.2
3	.0	.0	.0	*	.1	.8	1.5	1.1	.6	.1	*	*	.0	.0	.0	6300	.2	4.1
2	.0	.0	.0	*	.2	1.8	2.3	1.4	.7	.1	*	.0	.0	.0	.0	9632	.4	6.1
1	.0	.0	.0	*	.4	2.2	2.6	1.7	.7	.1	*	.0	.0	.0	.0	11449	.4	7.4
0	.0	.0	*	*	.9	4.1	3.5	2.0	.6	*	*	*	.0	.0	.0	16558	.6	10.6
-1	.0	.0	.0	*	1.1	4.1	3.2	2.0	.5	*	*	.0	.0	.0	.0	16227	.6	10.4
-2	.0	.0	*	.1	2.1	4.6	3.5	1.7	.3	*	*	.0	.0	.0	.0	18131	.7	11.6
-3	.0	.0	*	.1	2.0	3.8	2.9	1.6	.2	*	*	.0	.0	.0	.0	15806	.7	10.0
-4	.0	.0	*	.3	2.1	3.0	2.3	1.0	.1	*	*	.0	.0	.0	.0	12970	.6	8.2
-5	.0	*	*	.2	1.5	2.0	1.7	.8	.1	*	*	.0	.0	.0	.0	9354	.5	5.9
-6	.0	.0	*	.3	1.0	1.2	1.2	.3	*	.0	.0	.0	.0	.0	.0	5987	.3	3.7
-7/-8	.0	*	.1	.4	.9	1.0	1.0	.3	*	*	.0	.0	.0	.0	.0	5235	.3	3.3
-9/-10	*	*	.1	.2	.3	.3	.2	.1	*	*	.0	.0	.0	.0	.0	1679	.1	1.0
-11/-13	*	*	.1	.1	.1	.1	.1	*	*	.0	.0	.0	.0	.0	.0	633	*	.4
-14/-16	*	*	*	*	*	*	*	*	*	.0	.0	.0	.0	.0	.0	147	*	.1
-17/-19	*	*	*	*	*	*	*	*	.0	.0	.0	.0	.0	.0	.0	42	*	*
-20/-22	.0	*	.0	*	*	*	*	*	.0	.0	.0	.0	.0	.0	.0	6	.0	*
TOTAL																47154		
PCT	*	*	.3	1.9	13.0	30.2	29.0	17.5	6.1	1.5	.4	.1	*	*	*	100.0	6.1	93.9

PERIOD: (OVER-ALL) 1963-1974

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.5	1.7	.1	.0	.0	.0	2.4
1-2	.4	3.1	1.6	.0	.0	.0	5.1
3-4	*	.8	1.1	.1	.0	.0	2.1
5-6	*	.1	.3	.1	*	.0	.5
7	*	*	.2	.1	*	.0	.3
8-9	.0	*	*	*	*	.0	.1
10-11	.0	.0	*	*	*	.0	*
12	.0	.0	*	*	*	.0	*
13-16	.0	*	*	*	*	.0	*
17-19	.0	.0	.0	*	*	.0	*
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.0	5.8	3.3	.4	*	.0	10.5

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	.8	*	.0	.0	.0	1.2
1-2	.2	1.2	.4	.0	.0	.0	1.8
3-4	*	.2	.2	*	.0	.0	.5
5-6	*	*	.1	*	.0	.0	.1
7	.0	*	*	*	.0	.0	*
8-9	.0	*	*	*	*	.0	*
10-11	.0	.0	*	*	*	.0	*
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.5	2.2	.8	.1	*	.0	3.6

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	.8	*	.0	.0	.0	1.1
1-2	.1	1.0	.3	.0	.0	.0	1.4
3-4	*	.1	.2	*	.0	.0	.3
5-6	.0	*	*	*	.0	.0	.1
7	.0	*	*	.0	*	.0	*
8-9	.0	*	.0	.0	.0	.0	*
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.5	1.9	.5	*	*	.0	2.9

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	.9	*	.0	.0	.0	1.2
1-2	.2	1.2	.4	.0	.0	.0	1.7
3-4	*	.2	.2	*	.0	.0	.4
5-6	.0	*	*	*	.0	.0	.1
7	.0	*	*	.0	.0	.0	*
8-9	.0	.0	*	*	.0	.0	*
10-11	.0	*	.0	.0	.0	.0	*
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.5	2.3	.4	*	.0	.0	3.5

PERIOD: (OVER-ALL) 1963-1974

ANNUAL

AREA 0032 SAN DIEGO
32.6N 118.0W

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

	S							SW						
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.4	1.4	.1	.0	.0	.0	1.8	.5	1.8	.1	.0	.0	.0	2.4
1-2	.3	1.6	.5	.0	.0	.0	2.4	.3	2.6	.7	.0	.0	.0	3.7
3-4	*	.3	.3	.1	.0	.0	.6	.1	.5	.4	.1	.0	.0	1.0
5-6	*	*	.1	*	*	.0	.1	*	.1	.1	*	.0	.0	.2
7	.0	*	*	*	*	.0	*	.0	*	.1	*	.0	.0	.1
8-9	.0	.0	*	*	.0	.0	*	.0	.0	*	*	*	.0	*
10-11	.0	*	.0	.0	.0	.0	*	.0	.0	*	.0	.0	.0	*
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	*	.0	*	.0	.0	*	.0	.0	.0	*
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.7	3.3	.9	.1	*	.0	5.0	.9	4.9	1.4	.1	*	.0	7.4

	W							NW							TOTAL
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	PCT
<1	.7	3.0	.2	.0	.0	.0	3.9	.7	3.4	.2	.0	.0	.0	4.2	
1-2	.6	7.0	4.0	.0	.0	.0	11.7	.7	9.6	7.0	.0	.0	.0	17.3	
3-4	.1	2.2	3.3	.4	.0	.0	6.0	.1	3.4	7.1	.9	.0	.0	11.5	
5-6	*	.3	.7	.2	*	.0	1.1	*	.6	2.5	.5	*	.0	3.7	
7	.0	.1	.3	.2	*	.0	.5	*	.2	1.2	.6	*	.0	2.0	
8-9	.0	*	.1	*	*	.0	.1	.0	*	.3	.3	*	.0	.7	
10-11	.0	*	*	*	*	.0	.1	.0	*	.1	.2	*	.0	.3	
12	.0	.0	*	*	*	.0	*	.0	*	*	.1	*	.0	.1	
13-16	.0	.0	.0	*	.0	.0	*	.0	.0	.0	*	*	.0	.1	
17-19	.0	*	.0	*	.0	.0	*	.0	.0	*	*	*	.0	*	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	1.5	12.5	8.6	.8	*	.0	23.4	1.5	17.2	18.5	2.6	.1	.0	40.0	96.2

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	7.4	13.8	.7	.0	.0	.0	21.8	
1-2	3.2	27.1	14.9	.0	.0	.0	45.2	
3-4	.5	7.6	12.7	1.6	.0	.0	22.4	
5-6	*	1.2	3.7	.9	*	.0	5.9	
7	*	.3	1.8	.9	.1	.0	3.0	
8-9	*	.1	.5	.4	*	.0	1.0	
10-11	.0	*	.2	.2	.1	.0	.5	
12	.0	*	.1	.1	*	.0	.2	
13-16	.0	*	*	.1	*	.0	.1	
17-19	.0	*	*	*	*	.0	*	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
								38172
TOT PCT	11.1	50.1	34.5	4.2	.2	.0	100.0	

PERIOD: (OVER-ALL) 1949-1973

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	3.1	25.4	20.9	4.8	1.8	.4	.2	.1	*	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	46680	3
6-7	.1	3.9	7.5	3.8	2.1	.8	.3	.1	.1	*	*	.0	.0	.0	.0	.0	.0	.0	.0	15252	4
8-9	.1	1.4	2.5	1.5	1.2	.6	.3	.1	.1	*	*	.0	.0	.0	.0	.0	.0	.0	.0	6495	5
10-11	.0	.8	.7	.5	.4	.3	.1	*	*	*	*	.0	.0	.0	.0	.0	*	.0	.0	2518	5
12-13	.0	.0	.3	.1	.1	.1	.1	*	*	*	.0	*	.0	.0	.0	.0	.0	.0	.0	704	6
>13	.0	*	.0	.1	.1	*	*	*	*	*	*	*	.0	.0	.0	.0	.0	.0	.0	203	9
INDET	9.5	2.0	.7	.2	.1	.1	*	*	*	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	10331	1
TOTAL PCT	12.7	33.5	32.6	11.1	5.8	2.4	1.1	.4	.3	.1	*	*	.0	.0	.0	.0	*	.0	.0	82183 100.0	3

PERIOD: (PRIMARY) 1937-1974
(OVER-ALL) 1861-1974

AREA 0032 SAN DIEGO
32.6N 118.0W

TABLE 20

PERCENT FREQUENCY OF OCCURRENCE OF SEA TEMP (DEG F) BY MONTH

SEA TMP DEG F	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN	PCT
96+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
95/96	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
93/94	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
91/92	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
89/90	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
87/88	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
85/86	.0	.0	.0	.0	.0	.0	.0	*	*	*	.0	.0	4	*
83/84	.0	.0	.0	.0	.0	.0	*	.1	*	*	.0	.0	13	*
81/82	.0	.0	.0	.0	.0	*	*	*	.1	*	*	.0	24	*
79/80	.0	.0	.0	.0	.0	*	*	.1	*	*	*	.0	32	*
77/78	.0	.0	.0	.0	*	*	.2	.3	.2	*	*	.0	100	.1
75/76	.0	*	*	*	*	*	.6	1.4	1.0	.2	*	.0	444	.3
73/74	*	.0	*	*	.1	.5	1.6	4.1	2.1	.9	.1	*	1229	.8
71/72	*	.1	*	.1	.2	1.1	3.4	10.3	7.2	4.8	.5	.1	3662	2.4
69/70	.2	.1	.1	.2	.3	3.7	11.2	20.2	19.1	10.3	2.8	.3	8936	5.8
67/68	.9	.3	.2	.5	2.1	7.2	18.1	24.0	29.6	20.5	9.0	2.3	14811	9.7
65/66	.9	1.2	1.0	2.3	6.7	14.7	21.7	18.9	21.5	28.9	17.1	5.8	18105	11.8
63/64	4.6	3.0	4.1	8.5	17.9	26.4	20.1	12.7	12.3	22.3	27.7	16.7	22221	14.5
61/62	14.1	12.9	14.9	20.9	24.3	22.2	12.1	5.1	4.1	7.8	21.7	25.1	23154	15.1
59/60	29.0	31.7	30.6	31.4	24.5	14.6	6.9	1.9	1.7	3.0	14.7	27.8	27449	18.0
57/58	27.4	29.6	29.0	23.0	15.2	5.5	2.4	.6	.7	1.0	4.8	15.3	19706	12.9
55/56	16.4	15.6	13.5	7.7	5.8	2.5	.8	.2	.1	.1	1.0	4.7	8838	5.8
53/54	4.5	4.0	4.4	3.0	2.1	1.1	.3	.1	.1	.1	.3	1.4	2749	1.8
51/52	1.6	1.1	1.4	1.9	.5	.3	.3	*	*	*	.1	.3	975	.6
49/50	.7	.5	.5	.4	.1	.1	.1	*	*	*	.1	.1	342	.2
47/48	.1	*	.1	.1	.1	.0	*	.0	.0	.0	.0	*	48	*
45/46	*	.1	*	*	*	.0	.0	.0	.0	.0	.0	*	28	*
43/44	*	.0	*	*	*	.0	.0	.0	.0	.0	.0	.0	8	*
41/42	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	0
39/40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
37/38	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
35/36	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
33/34	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
31/32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
29/30	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
27/28	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
<27	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
TOTAL	13931	11898	13818	13029	13495	12657	11462	13336	13163	14312	12347	9430	152878	100.0
MEAN	58.5	58.5	58.6	59.5	60.8	62.8	65.2	67.4	67.1	65.8	63.1	60.7	62.3	

TABLE 21

PRESSURE (MB)

AVERAGE BY HOUR (GMT)

MO	0000	0300	0600	0900	1200	1500	1800	2100	MEAN	TOTAL OBS
JAN	1018	1019	1019	1019	1018	1019	1020	1019	1019	14676
FEB	1017	1018	1018	1018	1018	1018	1019	1018	1018	12315
MAR	1016	1017	1017	1017	1017	1017	1018	1017	1017	14472
APR	1015	1015	1016	1015	1015	1016	1017	1016	1016	14087
MAY	1015	1015	1015	1015	1015	1015	1016	1015	1015	14408
JUN	1013	1013	1014	1013	1013	1014	1014	1014	1013	13740
JUL	1013	1013	1014	1013	1013	1014	1014	1014	1014	12308
AUG	1013	1012	1013	1013	1013	1014	1014	1014	1013	14681
SEP	1011	1012	1012	1012	1012	1013	1013	1013	1012	14032
OCT	1014	1014	1015	1014	1014	1015	1015	1015	1014	15938
NOV	1016	1017	1017	1017	1017	1018	1018	1017	1017	13119
DEC	1017	1017	1018	1017	1017	1018	1019	1018	1018	9956
ANN	1015	1015	1016	1015	1015	1016	1016	1016	1015	163332
OBS	29444	14521	20512	9811	21293	19808	25607	22336		

PERCENTILES

MO	MIN	1%	5%	25%	50%	75%	95%	99%	MAX
JAN	997	1007	1012	1016	1019	1022	1025	1028	1032
FEB	997	1007	1011	1016	1018	1021	1024	1026	1032
MAR	1000	1007	1011	1015	1017	1019	1023	1025	1032
APR	999	1008	1010	1014	1016	1018	1021	1023	1030
MAY	1001	1008	1011	1013	1015	1017	1019	1021	1028
JUN	999	1006	1009	1012	1013	1015	1018	1020	1027
JUL	999	1006	1010	1012	1014	1015	1017	1019	1027
AUG	999	1006	1009	1012	1013	1015	1017	1019	1027
SEP	999	1005	1008	1010	1012	1014	1017	1018	1028
OCT	1000	1006	1009	1013	1015	1016	1019	1021	1028
NOV	999	1008	1011	1015	1017	1019	1022	1024	1031
DEC	999	1005	1010	1016	1018	1020	1024	1026	1031

JANUARY

PERIOD: (PRIMARY) 1946-1974
(OVER-ALL) 1863-1974

AREA 0033 SANTA ROSA IS. SW
32.6N 122.3W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA				
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	.5	.5	.9	.0	.0	.0	.0	1.9	.5	.0	2.5	.0	1.0		.0	94.1
NE	.6	.8	.8	.0	.0	.0	.0	2.3	1.7	.0	2.2	.0	2.5		.0	91.3
E	4.9	1.7	.3	.0	.0	.0	.0	7.0	1.0	.0	3.8	.0	1.4		.0	86.8
SE	5.1	2.1	2.3	.0	.0	.0	.0	9.5	3.7	.0	8.1	.3	1.8		.0	76.6
S	6.8	2.2	7.1	.0	.0	.0	.0	15.8	3.8	.2	7.5	1.3	.5		.0	71.2
SW	3.4	1.6	4.9	.0	.0	.0	.0	9.4	3.3	.2	9.1	.4	.9		.0	76.7
W	1.7	1.6	2.0	.0	.0	.0	.0	4.8	2.4	.0	7.4	.5	1.6		.2	83.2
NW	.4	.5	.6	.0	.0	.0	.0	1.5	.9	.0	4.4	.2	1.8		.0	91.1
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	.0
CALM	.0	.0	1.8	.0	.0	.0	.0	1.8	1.8	.0	7.9	.0	5.3		.0	83.3
TOT PCT	1.7	.9	1.8	.0	.0	.0	.0	4.3	1.5	*	4.8	.3	1.5		*	87.5
TOT OBS:	5272															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA				
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00&03	1.4	1.1	.9	.0	.0	.0	.0	3.4	1.5	.1	4.7	.4	1.2		.1	88.8
06&09	1.5	.6	1.5	.0	.0	.0	.0	3.6	1.8	.0	4.2	.1	1.6		.0	88.7
12&15	2.4	1.5	3.9	.0	.0	.0	.0	7.4	1.2	.1	5.5	.2	1.5		.0	84.2
18&21	1.3	.5	1.0	.0	.0	.0	.0	2.8	1.7	.0	4.8	.3	1.6		.0	88.8
TOT PCT	1.7	.9	1.8	.0	.0	.0	.0	4.3	1.5	*	4.9	.3	1.5		*	87.5
TOT OBS:	5314															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	1.0	8.7	15.0	4.9	.2	.0		29.7	14.6	32.4	28.1	29.1	29.6	28.4	28.0	29.5	31.1
NE	.5	2.9	2.6	.6	*	.0		6.7	11.5	5.1	8.3	7.0	5.6	6.3	8.9	7.2	6.4
E	.4	1.6	.6	*	*	.0		2.7	8.5	2.6	1.6	3.3	2.6	2.6	3.1	2.7	2.7
SE	.4	1.5	1.0	.2	*	.0		3.1	10.3	2.9	3.4	3.2	3.9	2.2	3.6	4.1	2.4
S	.3	3.0	4.0	.9	.1	.0		8.3	13.0	7.4	9.1	7.8	8.5	8.6	8.6	8.9	8.2
SW	.4	3.7	4.1	.5	*	.0		8.7	11.6	8.6	9.9	7.7	11.0	7.9	8.1	8.9	9.3
W	.7	5.6	3.8	.7	*	.0		10.8	10.9	10.3	10.0	13.1	10.2	13.0	9.5	10.3	8.7
NW	1.0	8.9	13.6	3.9	.3	.0		27.6	14.0	28.2	27.6	26.5	26.2	28.0	29.5	25.6	29.5
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	2.3							2.3	.0	2.4	1.9	2.4	2.4	3.0	.9	2.8	1.6
TOT OBS	389	1969	2464	642	38	0	5502		12.8	988	421	708	370	868	576	935	636
TOT PCT	7.1	35.8	44.8	11.7	.7	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	3.9	14.8	9.7	1.4	*		29.7	14.6	31.2	29.2	28.2	30.2
NE	1.5	3.9	1.2	.2	.0		6.7	11.5	6.1	6.5	7.3	6.9
E	1.2	1.3	.1	*	.0		2.7	8.5	2.3	3.0	2.8	2.7
SE	1.2	1.5	.4	.1	.0		3.1	10.3	3.0	3.5	2.7	3.4
S	1.5	4.5	2.1	.2	.0		8.3	13.0	7.9	8.0	8.6	8.6
SW	2.0	5.2	1.4	.1	.0		8.7	11.6	9.0	8.8	8.0	9.1
W	2.5	6.6	1.5	.2	.0		10.8	10.9	10.3	12.1	11.6	9.6
NW	4.0	15.0	7.4	1.2	*		27.6	14.0	28.0	26.4	28.6	27.2
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	2.3						2.3	.0	2.3	2.4	2.1	2.3
TOT OBS	1101	2901	1311	187	2	5502		12.8	1409	1078	1444	1571
TOT PCT	20.0	52.7	23.8	3.4	*		100.0		100.0	100.0	100.0	100.0

JANUARY

PERIOD: (PRIMARY) 1946-1974
(OVER-ALL) 1863-1974

AREA 0033 SANTA ROSA IS. SW
32.0N 122.3W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS) 11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	2.3	3.5	32.4	48.2	12.6	.9	.0	13.4	100.0	1409
06&09	2.4	5.8	35.3	45.4	10.5	.7	.0	12.7	100.0	1078
12&15	2.1	5.5	38.7	41.6	11.6	.6	.0	12.5	100.0	1444
18&21	2.3	4.6	36.5	44.3	11.7	.6	.0	12.7	100.0	1571
TOT	125	264	1969	2464	642	38	0	12.8		5502
PCT	2.3	4.8	35.8	44.8	11.7	.7	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	11.6	4.5	10.0	4.7		4.0
NE	3.2	.6	1.7	1.5		3.8
E	1.3	.3	1.1	.5		4.0
SE	.6	.3	.9	1.2		5.6
S	1.0	.8	3.1	5.2		6.5
SW	1.4	.9	2.4	4.2		6.0
W	3.4	1.4	3.1	2.9		4.6
NW	8.1	4.2	6.9	4.4		4.1
VAR	.0	.0	.0	.0		.0
CALM	1.2	.2	.8	.5		3.6
TOT OBS	1073	444	1006	847	3370	4.5
TOT PCT	31.8	13.2	29.9	25.1	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.1	.0	.5	1.5	4.6	5.2	.3	.1	*	.1	18.4	
NE	*	.0	*	.3	.9	1.2	*	*	*	.0	4.4	
E	*	.0	*	.1	.4	.5	*	*	*	*	2.0	
SE	.1	.0	.1	.3	.6	.4	*	*	*	*	1.4	
S	.4	.1	.4	1.3	2.3	1.6	.3	*	.1	.3	3.4	
SW	.4	.2	.3	.7	1.9	1.5	.2	.1	*	.2	3.4	
W	.3	.0	.2	.7	2.0	1.1	.1	.1	.1	.1	6.2	
NW	.3	.1	.2	1.5	3.2	3.2	.3	*	*	.2	14.4	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.1	.1	.3	.3	.0	.0	*	*	1.9	
TOT OBS	56	14	61	215	544	503	48	14	12	34	1869	3370
TOT PCT	1.7	.4	1.8	6.4	16.1	14.9	1.4	.4	.4	1.0	55.5	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM) * OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >50YD	* OR >0
* OR >6500	1.1	1.4	1.4	1.4	1.4	1.4	1.4	1.4
* OR >5000	1.4	1.8	1.8	1.8	1.8	1.8	1.8	1.8
* OR >3500	2.6	3.2	3.2	3.2	3.2	3.2	3.2	3.2
* OR >2000	14.0	17.9	18.0	18.1	18.1	18.1	18.1	18.1
* OR >1000	25.5	33.6	34.1	34.3	34.3	34.3	34.3	34.3
* OR >600	29.2	39.4	40.3	40.5	40.6	40.6	40.6	40.6
* OR >300	30.1	40.9	42.0	42.3	42.4	42.4	42.4	42.4
* OR >150	30.2	41.1	42.3	42.6	42.7	42.8	42.8	42.8
* OR > 0	30.3	41.4	42.9	43.3	43.5	44.0	44.3	44.4
TOTAL	1025	1399	1448	1461	1471	1485	1497	1501

TOTAL NUMBER OF OBS: 3378

PCT FREQ NH <5/8: 55.6

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
22.3	7.7	12.4	6.7	6.4	7.2	8.9	10.0	17.2	1.3	3595

JANUARY

PERIOD: (PRIMARY) 1946-1974
(OVER-ALL) 1863-1974

AREA 0033 SANTA ROSA IS. SW
32.6N 122.3W

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	PCP	*	.0	.0	.0	*	.1	.0	*	.0	.0	.2	
<1/2	NO PCP	*	*	*	.1	.1	.2	.2	*	.0	*	.9	
	TOT %	.1	*	*	.1	.2	.3	.2	.1	.0	*	1.0	
	PCP	*	*	*	*	.1	.1	*	*	.0	.0	.3	
1/2<1	NO PCP	.3	.1	.1	*	.1	.3	.1	.3	.0	*	1.3	
	TOT %	.3	.1	.1	*	.2	.4	.2	.3	.0	*	1.6	
	PCP	*	*	.0	*	.1	.1	*	*	.0	*	.2	
1<2	NO PCP	.1	*	.0	*	*	.1	.1	.2	.0	.0	.5	
	TOT %	.1	*	.0	*	.1	.2	.1	.2	.0	*	.7	
	PCP	.1	*	*	*	.3	.2	.1	.1	.0	*	.8	
2<5	NO PCP	.2	.1	*	*	.2	.2	.3	.5	.0	.1	1.7	
	TOT %	.4	.1	.1	.1	.5	.4	.4	.6	.0	.1	2.5	
	PCP	.3	.1	.1	.2	.7	.4	.3	.3	.0	.0	2.4	
5<10	NO PCP	5.1	1.2	.8	.6	1.9	1.9	1.8	5.2	.0	.3	18.8	
	TOT %	5.4	1.4	.9	.9	2.6	2.3	2.0	5.5	.0	.3	21.2	
	PCP	*	.0	*	*	.1	*	.1	.1	.0	.0	.5	
10+	NO PCP	23.7	5.2	1.7	2.0	4.6	5.2	7.7	20.9	.0	1.7	72.6	
	TOT %	23.7	5.2	1.7	2.0	4.8	5.2	7.8	21.0	.0	1.7	73.0	
	TOT OBS												5208
	TOT PCT	30.0	6.8	2.7	3.1	8.3	8.7	10.7	27.5	.0	2.2	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	0-3	.0	.0	.0	*	.0	*	*	.0	.0	*	.1	
<1/2	4-10	*	*	*	.1	.1	.2	.2	*	.0		.7	
	11-21	*	*	.0	*	*	*	*	*	.0		.2	
	22+	.0	.0	.0	.0	*	*	.0	.0	.0		*	
	TOT %	.1	*	*	.1	.2	.3	.3	.1	.0	*	1.1	
	0-3	*	.1	.0	.0	.0	*	*	*	.0	.1	.2	
1/2<1	4-10	.1	*	.1	*	.1	.1	.1	.2	.0		.8	
	11-21	.1	.0	*	*	.1	.2	*	.1	.0		.6	
	22+	.0	.0	.0	.0	.0	*	.0	.0	.0		*	
	TOT %	.3	.1	.1	*	.2	.4	.2	.3	.0	.1	1.6	
	0-3	.0	*	.0	.0	*	.0	.0	*	.0	*	.1	
1<2	4-10	*	*	.0	*	*	.1	.1	.1	.0		.4	
	11-21	*	*	.0	.0	.1	.1	*	.1	.0		.3	
	22+	*	.0	.0	.0	.0	.0	*	*	.0		.1	
	TOT %	.1	*	.0	*	.1	.2	.2	.2	.0	*	.9	
	0-3	.1	*	.0	*	*	*	*	.0	.0	.1	.2	
2<5	4-10	.2	*	.1	*	.2	.2	.2	.3	.0		1.2	
	11-21	.1	*	.0	*	.2	.2	.2	.3	.0		1.0	
	22+	.1	.0	.0	*	.1	.1	.0	*	.0		.3	
	TOT %	.4	.1	.1	.1	.6	.5	.4	.7	.0	.1	2.8	
	0-3	.3	.2	.2	.1	.1	.1	.1	.2	.0	.3	1.5	
5<10	4-10	1.5	.5	.4	.3	.7	.8	1.1	1.7	.0		7.0	
	11-21	2.6	.6	.2	.4	1.5	1.2	.7	2.4	.0		9.5	
	22+	1.0	.1	*	.1	.3	.1	.1	1.1	.0		2.9	
	TOT %	5.4	1.4	.9	.9	2.6	2.2	2.0	5.4	.0	.3	20.9	
	0-3	.6	.3	.2	.3	.2	.2	.5	.7	.0	1.7	4.7	
10+	4-10	6.7	2.3	1.1	1.0	1.9	2.2	3.9	6.5	.0		25.6	
	11-21	12.2	2.0	.4	.6	2.1	2.5	2.8	10.7	.0		33.3	
	22+	4.0	.5	*	.1	.5	.2	.6	3.1	.0		9.1	
	TOT %	23.5	5.1	1.7	2.0	4.7	5.2	7.8	21.1	.0	1.7	72.8	
	TOT OBS												5377
	TOT PCT	29.8	6.7	2.7	3.1	8.3	8.7	10.7	27.6	.0	2.3	100.0	

JANUARY

PERIOD: (PRIMARY) 1946-1974
(OVER-ALL) 1863-1974

AREA 0033 SANTA ROSA IS. SW
32.0N 122.3W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00&03	1.2	.5	1.5	6.4	17.3	13.6	1.4	.2	.2	1.1	43.5	56.5	913
06&09	1.0	.1	.9	4.8	12.6	13.1	1.0	.5	.4	1.0	35.4	64.6	808
12&15	2.2	.2	2.3	6.0	16.0	14.9	1.2	.5	.1	.4	43.7	56.9	835
18&21	2.0	.6	2.2	7.2	16.2	15.9	1.8	.4	.6	1.4	48.4	51.6	940
TOT	56	14	61	215	546	503	48	14	12	34	1503	1993	3496
PCT	1.6	.4	1.7	6.1	15.6	14.4	1.4	.4	.3	1.0	43.0	57.0	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00&03	1.1	1.1	.9	2.6	20.5	73.8	1392
06&09	.6	1.3	.8	2.6	22.4	72.3	1076
12&15	1.1	2.7	.9	3.6	24.9	66.8	1439
18&21	1.4	1.4	.7	2.3	16.2	78.0	1512
TOT	58	89	46	151	1130	3945	5419
PCT	1.1	1.6	.8	2.8	20.9	72.8	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET, NH >4/8), BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	1.3	3.5	11.4	34.9	53.7	879
06&09	.9	2.0	8.3	28.7	63.0	787
12&15	2.2	5.6	13.5	33.0	53.5	806
18&21	2.2	5.3	13.6	37.1	49.3	906
TOT	56	140	397	1135	1846	3378
PCT	1.7	4.1	11.8	33.6	54.6	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
75/79	.0	.0	*	*	*	.0	.0	.0	3	.1
70/74	.0	.0	.0	.1	.1	*	.0	.0	7	.2
65/69	.0	.0	.1	.2	.5	.6	.5	.4	88	2.2
60/64	.0	.0	.1	.6	2.4	5.5	7.3	4.7	810	20.6
55/59	.0	*	.6	1.6	5.9	15.6	23.2	10.7	2263	57.7
50/54	.0	*	.4	1.0	3.6	4.3	6.8	2.5	728	18.5
45/49	.0	.0	*	.1	.1	.2	.1	.1	23	.6
40/44	.0	.0	.0	.0	*	*	*	.0	3	.1
TOTAL	0	2	47	140	495	1027	1488	726	3925	100.0
PCT	.0	.1	1.2	3.6	12.6	26.2	37.9	18.5		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
*	.0	.0	.0	.0	*	.0	.0	.0	*
.1	.0	*	.0	.0	.0	*	*	.0	.0
.6	.2	.1	*	.2	.3	.3	.4	.0	.2
4.1	1.3	.6	1.1	3.6	2.8	2.5	4.1	.0	.6
18.7	4.0	1.5	1.4	3.5	3.6	5.9	18.1	.0	1.1
6.1	1.1	.3	.3	.4	1.0	1.8	7.1	.0	.4
.3	.1	*	*	.0	.0	*	.2	.0	.0
.0	.0	.0	.0	*	.0	.0	.1	.0	.0
29.9	6.6	2.5	2.9	7.7	7.6	10.6	30.0	.0	2.2

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00&03	70	67	64	58	53	50	42	58.1	1411
06&09	68	64	62	57	52	50	45	56.6	1081
12&15	69	63	61	56	51	49	43	56.3	1452
18&21	76	67	64	58	53	49	41	58.0	1577
TOT	76	66	63	57	52	49	41	57.3	5521

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00&03	.0	5.4	13.8	29.0	36.2	15.5	79	1030
06&09	.0	4.0	12.4	24.6	38.7	20.3	81	749
12&15	.0	3.9	9.3	21.3	41.4	24.1	82	1022
18&21	.0	5.5	14.4	28.9	36.1	15.2	79	1148
TOT	0	189	495	1033	1500	732	80	3949

PERIOD: (PRIMARY) 1946-1974
(OVER-ALL) 1963-1974

AREA 0033 SANTA ROSA IS. SW
32.6N 122.3W

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	41 44	45 48	49 52	53 56	57 60	61 64	65 68	69 72	73 76	TOT	W FOG	WO FOG
14/16	.0	.0	.0	.0	.0	.0	.0	*	*	3	.0	.1
11/13	.0	.0	.0	.0	*	*	.1	.1	*	14	.0	.3
9/10	.0	.0	.0	.0	*	.2	.3	.1	.0	29	.1	.5
7/8	.0	.0	.0	*	.2	.4	.6	.1	.0	65	.0	1.3
6	.0	.0	.0	*	.2	.4	.2	.0	.0	40	*	.8
5	.0	.0	.0	.1	.4	.7	.3	*	.0	73	.1	1.3
4	.0	.0	.1	.1	.9	1.7	.2	.0	.0	149	.2	2.7
3	.0	.0	.0	.1	1.9	1.8	.2	.0	.0	201	.1	3.9
2	.0	.0	.1	.9	4.0	2.3	.2	.0	.0	376	.5	6.9
1	.0	.0	*	1.5	5.6	2.4	.1	.0	.0	482	.6	9.0
0	.0	*	.3	4.6	7.6	1.7	*	.0	.0	718	.8	13.4
-1	.0	.0	.2	4.3	7.0	1.2	.0	.0	.0	637	.7	11.9
-2	.0	*	.5	5.8	6.1	.5	.0	.0	.0	653	.7	12.2
-3	.0	.0	.7	5.3	4.4	.3	.0	.0	.0	539	.4	10.3
-4	.0	.0	.9	4.7	2.3	.1	.0	.0	.0	402	.4	7.6
-5	*	.0	.7	3.3	1.3	.0	.0	.0	.0	272	.1	5.3
-6	.0	*	.7	1.7	.5	.0	.0	.0	.0	150	.1	2.9
-7/-8	.0	.1	.9	1.7	.4	.0	.0	.0	.0	156	*	3.1
-9/-10	.0	.1	.4	.5	.1	.0	.0	.0	.0	56	.1	1.1
-11/-13	*	.1	.1	.1	*	.0	.0	.0	.0	21	.0	.4
-14/-16	*	.0	*	*	.0	.0	.0	.0	.0	3	.0	.1
TOTAL	4	22	283	1758	2156	689	112	12	3	5039	252	4787
PCT	.1	.4	5.6	34.9	42.8	13.7	2.2	.2	.1	100.0	5.0	95.0

PERIOD: (OVER-ALL) 1963-1974

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.4	1.4	.2	.0	.0	.0	2.0
1-2	.2	3.6	3.4	.0	.0	.0	7.2
3-4	.0	2.3	5.2	.9	.0	.0	8.5
5-6	.0	.9	3.4	1.1	.0	.0	5.4
7	.0	.4	2.1	.7	.0	.0	3.1
8-9	.0	.1	.8	.9	.1	.0	1.8
10-11	.0	.0	.2	.9	.1	.0	1.2
12	.0	.0	.0	.2	.0	.0	.2
13-16	.0	.1	.0	.2	.0	.0	.3
17-19	.0	.0	.0	.2	.0	.0	.2
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.6	8.7	15.3	5.1	.2	.0	29.8

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.5	.1	.0	.0	.0	.7
1-2	.1	1.2	1.2	.0	.0	.0	2.5
3-4	.0	.8	1.3	.1	.0	.0	2.2
5-6	.0	.1	.7	.0	.0	.0	.8
7	.0	.2	.3	*	.0	.0	.6
8-9	.0	.0	.1	.6	.0	.0	.6
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	2.9	3.6	.7	.0	.0	7.4

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.1	.1	.0	.0	.0	.2
1-2	.2	.7	.0	.0	.0	.0	.9
3-4	.0	.1	.2	.0	.0	.0	.3
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.1	.2	.0	.0	.0	.3
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	1.0	.5	.0	.0	.0	1.7

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	.2	.0	.0	.0	.0	.4
1-2	.0	.7	.3	.0	.0	.0	1.0
3-4	.0	.1	.8	*	.0	.0	.9
5-6	.0	*	.1	.2	.0	.0	.3
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.1	.0	.0	.0	.1
10-11	.0	.0	.0	.0	.2	.0	.2
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	1.0	1.3	.2	.2	.0	2.9

PERIOD: (OVER-ALL) 1963-1974

JANUARY

AREA 0033 SANTA ROSA IS. SW
32.6N 122.3W

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

	S							SW						
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.3	.0	.0	.0	.0	.3	.1	.6	.1	.0	.0	.0	.7
1-2	.0	1.5	1.0	.0	.0	.0	2.5	.1	2.2	1.4	.0	.0	.0	3.7
3-4	.0	.7	1.6	.8	.0	.0	3.1	.0	.6	1.6	.2	.0	.0	2.3
5-6	.0	.2	.8	.8	.0	.0	1.7	.0	.0	.7	.1	.0	.0	.8
7	.0	.1	.1	.3	.0	.0	.5	.0	.0	.3	.2	.0	.0	.5
8-9	.0	.0	.2	.2	.0	.0	.4	.0	.0	.1	.2	.0	.0	.3
10-11	.0	.0	.0	.1	.0	.0	.1	.0	.0	*	.2	.0	.0	.3
12	.0	.0	.0	.2	.0	.0	.2	.0	.0	.0	*	.0	.0	*
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	2.8	3.8	2.2	.0	.0	8.8	.2	3.4	4.2	.9	.0	.0	8.6

	W							NW							TOTAL
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	PCT
<1	.4	1.2	.0	.0	.0	.0	1.6	.1	1.0	.1	.0	.0	.0	1.2	
1-2	.2	2.4	1.1	.0	.0	.0	3.7	.3	3.2	3.4	.0	.0	.0	6.9	
3-4	.0	1.5	.9	.3	.0	.0	2.7	.2	2.8	4.9	1.0	.0	.0	8.9	
5-6	.0	.1	1.0	.2	.0	.0	1.3	.0	.8	3.0	1.1	.0	.0	4.9	
7	.0	.2	.6	.2	.0	.0	.9	.0	.1	1.4	.6	.1	.0	2.2	
8-9	.0	.1	.4	.3	.0	.0	.8	.0	.1	.9	.7	.0	.0	1.7	
10-11	.0	.0	.2	.0	.0	.0	.2	.0	.0	.3	.3	.1	.0	.8	
12	.0	.0	.1	.0	.0	.0	.1	.0	.0	*	.1	.0	.0	.1	
13-16	.0	.0	.0	.2	.0	.0	.2	.0	*	.0	.1	.1	.0	.2	
17-19	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	*	.0	.0	*	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.6	5.4	4.3	1.3	.0	.0	11.6	.6	8.0	14.1	4.0	.3	.0	27.0	97.8

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	3.6	5.2	.5	.0	.0	.0	9.4	
1-2	1.0	15.4	11.9	.0	.0	.0	28.3	
3-4	.2	9.0	16.4	3.4	.0	.0	29.0	
5-6	.0	2.0	9.7	3.5	.0	.0	15.3	
7	.0	1.1	4.9	2.0	.1	.0	8.0	
8-9	.0	.3	2.7	2.7	.1	.0	5.7	
10-11	.0	.0	.8	1.6	.4	.0	2.7	
12	.0	.0	.1	.4	.0	.0	.5	
13-16	.0	.1	.0	.5	.1	.0	.7	
17-19	.0	.0	.0	.3	.0	.0	.3	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
								1131
TOT PCT	4.8	33.1	47.0	14.5	.6	.0	100.0	

PERIOD: (OVER-ALL) 1949-1974

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	1.5	9.7	11.2	5.4	2.0	1.2	.5	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	899	3
6-7	*	2.0	9.3	7.5	5.7	2.3	1.4	.6	.4	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	838	5
8-9	*	.6	3.8	4.1	4.8	2.3	1.7	1.1	.3	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	535	6
10-11	.0	.5	1.2	1.3	2.8	1.5	1.2	.7	.4	.2	*	.0	.0	.0	.0	.0	.0	.0	.0	276	7
12-13	.0	.0	1.1	.7	.5	.4	.4	.2	.5	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	106	7
>13	.0	.0	.0	.2	.6	.2	.3	.1	.2	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	44	9
INDET	1.8	.9	1.4	.5	.5	.2	*	*	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	155	3
TOTAL	95	390	799	561	480	230	157	77	50	10	4	0	0	0	0	0	0	0	0	2853	5
PCT	3.3	13.7	28.0	19.7	16.8	8.1	5.5	2.7	1.8	.4	.1	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

FEBRUARY

PERIOD: (PRIMARY) 1947-1974
(OVER-ALL) 1869-1974

AREA 0033 SANTA ROSA IS. SW
32.6N 122.3W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	.5	.5	.8	.0	.0	.0	.0	1.9	.4	.0	3.3	.2	1.0		.0	93.2
NE	5.2	.0	1.5	.0	.0	.0	.0	6.3	.5	.0	3.2	.0	.9		.0	89.2
E	1.3	.8	4.7	.0	.0	.0	.0	6.9	.8	.0	5.5	.0	2.6		.0	84.2
SE	3.9	.2	3.4	.0	.0	.0	.0	7.4	3.0	.2	5.7	.2	1.4		.7	81.4
S	5.1	1.3	4.9	.0	.0	.0	.0	11.3	2.8	.2	7.8	.6	2.3		.0	74.9
SW	4.8	1.9	1.6	.0	.0	.0	.0	8.1	2.5	.6	9.7	.3	1.6		.0	77.1
W	1.4	2.4	3.5	.0	.0	.0	.0	7.0	2.3	.0	9.7	.7	.9		.0	79.3
NW	.6	.5	2.1	.0	.0	.0	.0	3.1	1.3	.1	5.8	.3	1.4		.1	88.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	.0
CALM	.0	1.4	1.4	.0	.0	.0	.0	2.9	.0	.0	18.6	1.4	4.3		.0	72.9
TOT PCT	1.7	.9	2.1	.0	.0	.0	.0	4.6	1.3	.1	6.1	.3	1.4		*	86.2
TOT OBS:	4228															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00&03	1.9	.9	1.4	.0	.0	.0	.0	4.1	1.5	.1	6.0	.3	1.8		.0	86.2
06&09	1.8	1.0	2.3	.0	.0	.0	.0	4.8	1.3	.2	7.0	.5	1.2		.0	85.0
12&15	2.0	1.0	2.5	.0	.0	.0	.0	5.5	1.7	.2	6.2	.5	.7		.0	85.2
18&21	1.0	.7	2.3	.0	.0	.0	.0	4.0	1.1	.0	5.3	.1	1.8		.2	87.5
TOT PCT	1.7	.9	2.1	.0	.0	.0	.0	4.6	1.4	.1	6.1	.3	1.4		*	86.0
TOT OBS:	4256															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	.7	6.1	19.9	5.8	.6	.0		29.1	16.3	29.3	23.6	29.7	31.7	29.0	29.1	30.4	28.5
NE	.2	2.2	1.9	.3	.0	.0		4.6	11.5	4.1	3.4	4.0	4.4	5.0	5.9	5.8	3.8
E	.3	1.5	.5	*	.0	.0		2.3	7.8	1.8	1.1	2.5	1.5	2.1	2.5	3.3	2.5
SE	.3	1.8	1.0	.1	*	.0		3.3	10.0	2.8	2.7	2.4	3.6	3.5	3.3	4.8	2.8
S	.4	2.6	3.6	.6	*	.0		7.2	12.3	7.6	7.3	7.0	6.4	6.2	8.4	7.3	8.1
SW	.4	3.5	3.5	.5	*	.0		7.8	11.9	7.8	7.8	6.7	8.0	7.3	9.4	6.9	10.8
W	.8	5.3	4.6	1.0	.1	.0		11.9	11.8	13.0	14.3	11.2	13.9	11.5	12.6	10.5	10.0
NW	.8	8.9	15.8	5.7	.7	.0		31.9	15.4	31.5	38.9	34.1	28.6	32.8	28.2	28.7	32.6
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.9							1.9	.0	2.1	1.0	2.5	1.9	2.6	.6	2.3	.9
TOT OBS	263	1414	2073	617	63	0	4430		13.9	870	312	689	257	759	356	747	440
TOT PCT	5.9	31.9	46.8	13.9	1.4	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	2.4	13.2	11.4	2.1	.1		29.1	16.3	27.8	30.3	29.0	29.7
NE	1.0	2.7	.9	.1	.0		4.6	11.5	3.9	4.1	5.3	5.1
E	1.0	1.3	.1	.0	.0		2.3	7.8	1.6	2.2	2.2	3.0
SE	1.1	1.8	.4	.1	.0		3.3	10.0	2.7	2.7	3.4	4.0
S	1.7	3.7	1.7	.1	.0		7.2	12.3	7.5	6.8	6.9	7.6
SW	1.8	4.3	1.6	.1	*		7.8	11.9	7.8	7.0	8.0	8.3
W	2.8	6.5	2.0	.4	*		11.9	11.8	13.4	11.9	11.8	10.3
NW	3.3	15.7	10.4	2.3	.1		31.9	15.4	33.4	32.6	31.3	30.2
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	1.9						1.9	.0	1.8	2.3	2.0	1.8
TOT OBS	757	2176	1260	230	7	4430		13.9	1182	946	1115	1187
TOT PCT	17.1	49.1	28.4	5.2	.2		100.0		100.0	100.0	100.0	100.0

FEBRUARY

PERIOD: (PRIMARY) 1947-1974
(OVER-ALL) 1869-1974

AREA 0033 SANTA ROSA IS. SW
32.0N 122.3W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	1.8	3.7	31.6	46.5	14.6	1.9	.0	14.2	100.0	1182
06&09	2.3	3.9	32.5	46.1	13.4	1.8	.0	13.8	100.0	946
12&15	2.0	4.6	31.5	47.5	13.4	1.1	.0	13.8	100.0	1115
18&21	1.8	3.8	32.3	46.9	14.2	1.0	.0	13.9	100.0	1187
TOT	86	177	1414	2073	617	63	0	13.9		4430
PCT	1.9	4.0	31.9	46.8	13.9	1.4	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	10.9	5.1	10.0	5.8		4.2
NE	1.8	.7	1.2	1.2		4.2
E	.7	.3	.6	.7		4.8
SE	.5	.3	1.1	1.5		6.1
S	1.1	.7	1.8	3.2		6.0
SW	1.1	.5	2.1	3.1		6.0
W	2.4	1.9	3.6	4.1		5.2
NW	9.9	4.8	8.9	6.8		4.3
VAR	.0	.0	.0	.0		.0
CALM	.5	.3	.6	.5		4.8
TOT OBS	909	454	937	847	3147	4.7
TOT PCT	28.9	14.4	29.8	26.9	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

	000 149	150 [illegible]	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.4	.1	.4	1.4	5.8	3.9	1.2	*	.1	*	18.4	
NE	.1	.0	*	.2	.6	.6	.1	.0	.1	*	3.1	
E	*	.0	.1	.2	.2	.2	*	.0	*	.2	1.3	
SE	.2	*	.1	.2	.6	.5	.1	*	.1	*	1.6	
S	.4	.1	.3	.6	1.1	1.3	.1	.1	.1	*	2.6	
SW	.6	.1	.1	.4	1.1	1.5	*	.1	*	*	2.7	
W	.8	.2	.3	.9	2.0	1.7	.1	.1	.1	.2	5.4	
NW	.9	.4	.5	1.8	4.8	3.3	.7	.2	.1	.1	17.5	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.1	*	.0	.0	.3	.1	.1	.0	*	*	1.1	
TOT OBS	111	26	58	180	522	417	80	18	21	22	1692	3147
TOT PCT	3.5	.8	1.8	5.7	16.6	13.3	2.5	.6	.7	.7	53.8	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM) * OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >50YD	* OR >0
* OR >6500	1.1	1.4	1.4	1.4	1.4	1.4	1.4	1.4
* OR >5000	1.5	1.9	1.9	1.9	1.9	1.9	1.9	1.9
* OR >3500	3.8	4.4	4.5	4.5	4.5	4.5	4.5	4.5
* OR >2000	14.8	17.3	17.6	17.7	17.7	17.7	17.7	17.7
* OR >1000	26.6	33.0	34.0	34.2	34.3	34.3	34.3	34.3
* OR >600	30.3	38.2	39.6	39.8	40.0	40.0	40.0	40.0
* OR >300	31.0	39.7	41.3	41.6	41.8	41.8	41.8	41.8
* OR >150	31.2	40.3	41.9	42.4	42.6	42.6	42.6	42.7
* OR > 0	31.4	40.6	42.7	43.5	44.4	44.9	45.9	46.2
TOTAL	987	1279	1343	1369	1396	1414	1445	1455

TOTAL NUMBER OF OBS: 3147

PCT FREQ NH <5/8: 53.8

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
18.8	7.5	12.3	8.6	6.4	6.9	9.4	7.6	19.4	3.0	3245

PERIOD: (PRIMARY) 1947-1974
(OVER-ALL) 1869-1974

AREA 0033 SANTA ROSA IS, SW
32.0N 122.3W

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	PCP	.1	*	.0	.0	.0	.0	*	.1	.0	.0	.2	
<1/2	NO PCP	.1	.1	*	.1	.2	.4	.4	.4	.0	.1	1.8	
	TOT %	.2	.1	*	.1	.2	.4	.4	.5	.0	.1	2.0	
	PCP	.1	*	.0	*	*	.0	*	.1	.0	.0	.2	
1/2<1	NO PCP	.3	*	*	*	*	.1	.2	.3	.0	*	1.0	
	TOT %	.4	*	*	.1	.1	.1	.2	.4	.0	*	1.2	
	PCP	.0	.0	.0	*	.2	.1	*	.0	.0	.0	.4	
1<2	NO PCP	*	.0	*	*	.1	.1	.2	.3	.0	.1	.9	
	TOT %	*	.0	*	.1	.3	.2	.2	.3	.0	.1	1.3	
	PCP	*	.1	.1	*	.2	.2	.1	.2	.0	.0	.8	
2<5	NO PCP	.6	*	*	*	.4	.2	.3	.8	.0	*	2.5	
	TOT %	.6	.1	.1	.1	.6	.4	.3	1.0	.0	*	3.3	
	PCP	.3	.1	.1	.1	.3	.2	.3	.4	.0	*	1.9	
5<10	NO PCP	4.3	.5	.5	.8	1.3	1.5	2.3	5.3	.0	.2	16.7	
	TOT %	4.6	.6	.5	.9	1.6	1.8	2.6	5.7	.0	.3	18.6	
	PCP	.1	*	*	*	.1	.1	.4	.3	.0	*	1.1	
10+	NO PCP	23.4	3.7	1.5	2.1	4.4	4.9	7.7	23.7	.0	1.1	72.5	
	TOT %	23.5	3.7	1.5	2.1	4.6	5.1	8.1	24.0	.0	1.1	73.6	
	TOT OBS												4220
	TOT PCT	29.3	4.6	2.2	3.3	7.3	7.9	11.9	31.8	.0	1.7	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	0-3	.0	.0	*	.0	.1	*	.1	*	.0	.1	.3	
<1/2	4-10	.1	.1	.0	.1	*	.2	.3	.2	.0		1.0	
	11-21	.1	*	.0	.0	.1	.2	.1	.2	.0		.6	
	22+	*	.0	.0	.0	*	*	.0	*	.0		.1	
	TOT %	.2	.1	*	.1	.2	.4	.4	.5	.0	.1	2.1	
	0-3	*	.0	.0	.0	.0	.0	*	.0	.0	*	.1	
1/2<1	4-10	.1	*	*	*	*	*	.1	.2	.0		.4	
	11-21	.2	.0	.0	*	*	*	.1	.2	.0		.6	
	22+	.1	*	.0	.0	.0	.0	*	.1	.0		.1	
	TOT %	.4	*	*	.1	.1	.1	.2	.4	.0	*	1.2	
	0-3	.0	.0	.0	.0	*	.0	*	*	.0	.1	.2	
1<2	4-10	*	.0	*	*	.1	.1	.1	.1	.0		.4	
	11-21	*	.0	.0	*	.2	.2	.1	.2	.0		.7	
	22+	*	.0	.0	.0	*	*	.0	*	.0		.1	
	TOT %	*	.0	*	.1	.3	.2	.2	.4	.0	.1	1.5	
	0-3	*	.0	.0	.0	*	*	*	*	.0	.1	.2	
2<5	4-10	.2	.1	.1	*	.3	.1	.1	.3	.0		1.2	
	11-21	.2	.1	*	*	.2	.2	.1	.6	.0		1.5	
	22+	.2	*	.0	.0	.1	.1	.1	.2	.0		.7	
	TOT %	.7	.2	.1	.1	.6	.4	.4	1.2	.0	.1	3.7	
	0-3	.1	.0	*	.1	*	.1	.2	.2	.0	.3	.9	
5<10	4-10	.8	.3	.4	.5	.5	.8	1.0	1.1	.0		5.4	
	11-21	2.2	.2	*	.3	.9	.7	1.1	3.3	.0		8.8	
	22+	1.5	.1	*	*	.2	.2	.2	1.1	.0		3.3	
	TOT %	4.5	.6	.5	.9	1.6	1.7	2.6	5.7	.0	.3	18.4	
	0-3	.6	.2	.3	.3	.2	.3	.4	.6	.0	1.2	4.1	
10+	4-10	4.7	1.7	.9	1.1	1.8	2.3	3.6	7.0	.0		23.2	
	11-21	13.3	1.6	.3	.6	2.2	2.2	3.1	11.3	.0		34.7	
	22+	4.7	.2	*	.1	.3	.2	.8	4.7	.0		11.1	
	TOT %	23.4	3.7	1.6	2.1	4.5	5.0	8.0	23.6	.0	1.2	73.1	
	TOT OBS												4330
	TOT PCT	29.3	4.6	2.3	3.2	7.3	7.8	11.8	31.8	.0	1.8	100.0	

FEBRUARY

PERIOD: (PRIMARY) 1947-1974
(OVER-ALL) 1869-1974

AREA 0033 SANTA RUSA IS. SW
32.6N 122.3W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET,NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00&03	3.3	.8	2.5	6.4	18.8	12.1	1.7	.8	.6	1.0	48.1	51.9	876
06&09	3.7	.9	2.1	4.5	12.0	10.4	2.3	.1	.8	.5	37.6	62.4	748
12&15	4.5	.9	1.1	3.9	15.5	14.2	3.2	.5	.5	.7	44.9	55.1	761
18&21	2.7	.6	1.7	7.3	18.5	15.4	2.9	.7	.7	.5	51.1	48.9	818
TOT	113	26	60	180	524	418	80	18	21	22	1462	1741	3203
PCT	3.5	.8	1.9	5.6	16.4	13.1	2.5	.6	.7	.7	45.6	54.4	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00&03	2.6	1.5	1.7	3.8	17.1	73.3	1170
06&09	1.9	2.0	1.4	3.5	17.9	73.3	940
12&15	2.3	.7	1.5	4.3	21.6	69.5	1109
18&21	1.5	.8	1.2	3.3	17.2	75.9	1139
TOT	91	53	64	163	804	3183	4358
PCT	2.1	1.2	1.5	3.7	18.4	73.0	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET,NH >4/8), BY HOUR

HOUR (GMT)	<150 <500YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	3.5	7.2	15.6	33.8	50.6	861
06&09	3.8	7.2	13.9	26.2	59.9	733
12&15	4.4	6.8	13.0	33.6	53.5	748
18&21	2.7	5.6	15.2	37.8	47.1	805
TOT	113	211	455	1038	1654	3147
PCT	3.6	6.7	14.5	33.0	52.6	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
70/74	.0	*	.0	.1	.0	.1	.0	*	7	.2
65/69	.0	.0	.1	.1	.6	.5	.4	.1	57	1.8
60/64	.0	.0	.2	.8	2.8	4.9	5.9	4.6	623	19.2
55/59	.0	.0	.2	1.2	6.6	15.3	21.3	11.9	1829	56.5
50/54	.0	.0	.1	.5	4.1	5.0	8.8	3.6	713	22.0
45/49	.0	.0	.0	*	.1	.1	.1	.1	10	.3
TOTAL	0	1	17	87	460	835	1180	659	3239	100.0
PCT	.0	*	.5	2.7	14.2	25.8	36.4	20.3		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.1	*	.0	.0	*	.0	.0	*	.0	*
.3	.1	.1	.1	.2	.1	.3	.5	.0	.1
3.8	.8	.4	.8	2.8	8.0	2.9	4.1	.0	.5
15.9	2.9	1.4	2.0	3.6	3.7	6.9	19.3	.0	.8
8.1	.7	.5	.4	.4	.4	1.9	9.6	.0	.1
.1	.0	.0	.0	.0	.0	.0	.1	.0	*
28.3	4.6	2.4	3.3	6.9	7.1	12.0	33.7	.0	1.5

TABLE 15

MEANS,EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00&03	70	67	64	58	52	50	45	58.0	1175
06&09	67	63	61	56	51	50	45	56.2	948
12&15	67	63	61	56	51	50	43	56.1	1119
18&21	74	68	63	58	52	50	48	57.9	1195
TOT	74	66	63	57	52	50	43	57.1	4437

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00&03	.0	4.4	17.3	27.4	34.4	16.3	79	900
06&09	.0	1.1	11.4	25.4	38.9	23.2	82	710
12&15	.0	2.6	10.0	23.8	38.7	24.9	83	814
18&21	.0	4.4	17.2	26.3	34.4	17.8	79	838
TOT	0	106	402	841	1189	664	81	3262

PERIOD: (PRIMARY) 1947-1974
(OVER-ALL) 1869-1974

AREA 0033 SANTA ROSA IS, SW
32.0N 122.3W

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	41 44	45 48	49 52	53 56	57 60	61 64	65 68	69 72	73 76	TOT	W FOG	WO FOG
17/19	.0	.0	.0	.0	.0	.0	.0	.0	*	1	.0	*
14/16	.0	.0	.0	.0	.0	.0	*	*	*	4	.0	.1
11/13	.0	.0	.0	*	.0	*	.1	.1	*	14	.0	.3
9/10	.0	.0	.0	.0	*	.1	.2	*	.0	15	.0	.4
7/8	.0	.0	.0	*	.1	.7	.4	*	.0	51	.1	1.1
6	.0	.0	.0	*	.1	.5	.2	.0	.0	35	*	.8
5	.0	*	.0	.1	.8	1.0	.3	*	.0	89	.1	2.1
4	.0	.0	.0	.2	1.5	2.0	.2	.0	.0	153	.2	3.5
3	.0	.0	*	.4	1.7	1.6	*	*	.0	155	.3	3.5
2	.0	.0	*	1.0	3.9	2.4	*	.0	.0	299	.5	6.9
1	.0	.0	*	1.7	5.4	2.2	*	.0	.0	375	.7	8.6
0	*	.1	.1	3.9	8.8	1.4	.0	.0	.0	580	1.0	13.3
-1	.0	.0	.4	5.2	6.2	.5	.0	.0	.0	496	1.0	11.2
-2	.0	*	.7	6.9	4.6	.3	.0	.0	.0	510	.6	12.0
-3	.0	.0	.8	5.3	3.0	.1	*	.0	.0	373	.4	8.8
-4	.0	*	1.7	4.9	2.2	.1	.0	.0	.0	366	.5	8.5
-5	.0	*	1.1	3.2	.8	.1	*	.0	.0	216	.2	5.1
-6	.0	.1	1.3	1.8	.3	.0	.0	.0	.0	142	.1	3.4
-7/-8	.0	*	1.0	1.6	.2	*	.0	.0	.0	120	.1	2.9
-9/-10	.0	*	.3	.3	*	*	.0	.0	.0	28	*	.6
-11/-13	.0	.0	.1	.1	.1	.0	.0	.0	.0	12	*	.2
-14/-16	.0	.0	.0	.1	*	.0	.0	.0	.0	7	.0	.2
-17/-19	.0	.0	*	.0	.0	.0	.0	.0	.0	1	.0	*
TOTAL	1	14	311	1492	1615	530	65	10	4	4042	252	3790
PCT	*	.3	7.7	36.9	40.0	13.1	1.6	.2	.1	100.0	6.2	93.8

PERIOD: (OVER-ALL) 1963-1974

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	1.1	.1	.0	.0	.0	1.3
1-2	.1	2.6	2.5	.0	.0	.0	5.2
3-4	.3	1.5	4.5	1.2	.0	.0	7.4
5-6	.0	.4	3.6	.8	.2	.0	5.0
7	.0	.3	2.1	1.0	.0	.0	3.3
8-9	.0	.1	.9	.3	.1	.0	1.4
10-11	.0	.0	.3	1.0	.1	.0	1.4
12	.0	.0	.3	.7	.3	.0	1.3
13-16	.0	.0	.1	.5	.3	.0	.8
17-19	.0	.0	.0	.2	.2	.0	.4
20-22	.0	.0	.0	.2	.0	.0	.2
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.5	5.9	14.4	5.7	1.2	.0	27.7

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.7	.0	.0	.0	.0	.7
1-2	.1	1.1	.4	.0	.0	.0	1.7
3-4	.0	.6	.9	.1	.0	.0	1.5
5-6	.0	.0	.5	.0	.0	.0	.5
7	.0	.0	.4	.0	.0	.0	.4
8-9	.0	.0	.1	.2	.0	.0	.3
10-11	.0	.0	*	.0	.0	.0	*
12	.0	.0	.0	*	.0	.0	*
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.1	.0	.0	.1
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.1	2.4	2.3	.4	.0	.0	5.2

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	.4	.0	.0	.0	.0	.5
1-2	.1	1.4	.4	.0	.0	.0	1.8
3-4	.1	.3	.3	.0	.0	.0	.6
5-6	.1	.0	.0	.0	.0	.0	.1
7	.0	.1	.1	.1	.0	.0	.3
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.4	2.2	.7	.1	.0	.0	3.3

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.3	.0	.0	.0	.0	.4
1-2	.1	1.7	.7	.0	.0	.0	2.5
3-4	.0	.8	.7	.0	.0	.0	1.5
5-6	*	.2	.3	.1	.0	.0	.5
7	.0	.2	.1	*	.0	.0	.3
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	*	.0	.0	*
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	3.1	1.8	.1	.0	.0	5.2

PERIOD: (OVER-ALL) 1963-1974

FEBRUARY

TABLE 18 (CONT)

AREA 0033 SANTA ROSA IS. SW
32.6N 122.3W

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

	S							SW						
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	.7	.0	.0	.0	.0	1.0	.1	1.2	.1	.0	.0	.0	1.4
1-2	.0	1.6	1.0	.0	.0	.0	2.6	.2	.9	.4	.0	.0	.0	1.5
3-4	.0	.4	1.1	.0	.0	.0	1.5	.0	.3	1.3	.2	.0	.0	1.8
5-6	.1	.1	.7	.1	.0	.0	.9	.1	.4	.6	.2	.0	.0	1.2
7	.0	.1	.1	.2	.0	.0	.4	.0	*	.0	.1	.0	.0	.1
8-9	.0	.0	.1	.1	.0	.0	.1	.0	.0	.0	.1	.0	.0	.1
10-11	.0	.0	.1	.1	.0	.0	.1	.0	.0	*	.0	.0	.0	*
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.4	2.8	3.0	.4	.0	.0	6.6	.4	2.8	2.4	.6	.0	.0	6.1

	W							NW							TOTAL
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	PCT
<1	.3	.5	.0	.0	.0	.0	.9	.4	.9	.0	.0	.0	.0	1.3	
1-2	.1	2.0	1.5	.0	.0	.0	3.6	.2	5.2	3.0	.0	.0	.0	8.3	
3-4	.2	1.6	1.8	.1	.0	.0	3.7	.1	2.6	5.3	1.4	.0	.0	9.4	
5-6	.0	.3	1.1	.1	.1	.0	1.5	.0	.5	3.5	1.3	.1	.0	5.5	
7	.1	.1	.7	.1	.0	.0	1.0	.0	.1	2.0	1.7	.2	.0	4.0	
8-9	.0	.1	.2	.3	.0	.0	.5	.0	.2	.3	.5	.1	.0	1.0	
10-11	.0	.0	.0	.2	.0	.0	.2	.0	.0	.1	.7	.1	.0	.9	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.8	.1	.0	1.1	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.2	.3	.0	.7	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	.0	*	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.1	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.6	4.6	5.2	.8	.1	.0	11.4	.7	9.4	14.4	6.7	1.0	.0	32.2	97.7

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	3.5	5.8	.2	.0	.0	.0	9.5	
1-2	.8	16.5	9.9	.0	.0	.0	27.2	
3-4	.8	8.0	15.8	2.9	.0	.0	27.6	
5-6	.3	1.8	10.3	2.5	.4	.0	15.2	
7	.1	.8	5.3	3.3	.2	.0	9.7	
8-9	.0	.3	1.5	1.3	.3	.0	3.4	
10-11	.0	.0	.5	2.0	.2	.0	2.7	
12	.0	.0	.5	1.5	.4	.0	2.4	
13-16	.0	.0	.3	.7	.6	.0	1.5	
17-19	.0	.0	.0	.3	.3	.0	.5	
20-22	.0	.0	.0	.3	.0	.0	.3	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
								1197
TOT PCT	5.5	33.3	44.2	14.7	2.3	.0	100.0	

PERIOD: (OVER-ALL) 1949-1974

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	1.5	8.2	12.0	4.9	3.0	2.0	.4	.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	890	4
6-7	*	1.2	6.9	6.8	5.5	3.7	2.3	.6	.6	.4	.2	.0	.0	.0	.0	.0	.0	.0	.0	774	6
8-9	.0	.8	2.4	3.5	3.9	3.7	1.5	1.0	.9	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	496	7
10-11	.0	.6	2.1	1.9	1.9	1.5	.8	.9	.4	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	291	7
12-13	.0	.0	1.1	.9		.6	.5	.1	.3	*	.1	*	.0	.0	.0	.0	.0	.0	.0	120	7
>13	.0	.0	.0	.2	.1	.2	.1	.0	.7	.0	.1	*	.0	.0	.0	.0	.0	.0	.0	36	12
INDET	2.3	.6	.8	.8	.5	.2	*	*	.0	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	146	3
TOTAL	105	316	696	523	428	325	156	78	80	23	19	2	0	0	0	0	0	0	0	2751	6
PCT	3.8	11.5	25.3	19.0	15.6	11.8	5.7	2.8	2.9	.8	.7	.1	.0	.0	.0	.0	.0	.0	.0	100.0	

MARCH

PERIOD: (PRIMARY) 1945-1974
(OVER-ALL) 1871-1974

AREA 0033 SANTA ROSA IS. SW
32.7N 122.2W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG	DUST BLWG SNOW	NO SIG WEA
N	.3	.3	.5	.0	.0	.0	.0	1.1	.7	.1	1.6	.1	1.0	.1		95.4
NE	.3	.2	1.7	.0	.0	.0	.0	2.3	.0	.0	4.0	.0	.9	.0		92.9
E	2.1	.0	3.3	.0	.0	.0	.0	5.4	4.8	.0	4.8	.0	3.6	.0		81.4
SE	8.3	1.2	1.8	.0	.0	.0	.0	11.2	1.2	.0	11.8	.0	.0	.0		75.7
S	4.8	.2	3.6	.0	.0	.0	.0	8.2	2.8	.0	4.4	.0	.4	.0		84.1
SW	5.7	.6	5.5	.0	.0	.0	.4	9.9	1.7	.0	5.8	.0	1.1	.0		81.5
W	1.3	1.1	1.8	.0	.0	.0	.0	3.5	2.4	.0	2.6	.0	1.2	.0		90.3
NW	.5	.5	.6	.0	.0	.0	.0	1.5	.8	.1	2.4	.1	2.6	.0		92.6
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	8.9	.0	2.0	.0		89.1
TOT PCT	1.1	.5	1.2	.0	.0	.0	*	2.6	1.2	.1	2.8	.1	1.7	*		91.6
TOT OBS:	5116															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG	DUST BLWG SNOW	NO SIG WEA
00&03	.8	.6	1.4	.0	.0	.0	.1	2.5	.9	.1	2.6	.0	2.3	.0		91.6
06&09	1.1	.3	1.1	.0	.0	.0	.0	2.3	1.0	.0	1.9	.2	.9	.1		93.5
12&15	1.5	.7	1.6	.0	.0	.0	.0	3.5	1.5	.1	3.5	.0	1.5	.0		89.9
18&21	1.1	.5	.8	.0	.0	.0	.0	2.1	1.2	.1	3.1	.1	2.0	.0		91.5
TOT PCT	1.1	.5	1.2	.0	.0	.0	*	2.6	1.1	.1	2.8	.1	1.7	*		91.6
TOT OBS:	5137															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	.7	6.2	13.1	6.5	.3	.0		26.9	16.6	28.9	19.9	28.9	25.2	25.3	26.0	31.0	22.9
NE	.2	1.3	.9	.3	*	.0		2.8	11.9	2.6	3.0	2.2	1.8	2.6	2.8	3.7	3.6
E	.3	.9	.3	.1	.0	.0		1.6	8.5	1.1	1.5	1.0	.6	1.2	2.0	2.7	2.4
SE	.2	1.2	.4	.1	*	.0		1.9	9.4	1.6	2.0	1.1	2.7	2.1	3.2	1.1	3.1
S	.4	1.9	2.0	.3	*	.0		4.6	11.6	5.2	4.6	4.2	5.2	4.1	4.6	3.8	5.5
SW	.4	2.9	1.7	.2	*	.0		5.3	10.0	5.1	6.3	4.7	5.1	4.7	5.4	4.3	8.6
W	.8	4.8	5.1	1.5	.1	.0		12.3	12.9	9.8	13.0	12.7	14.5	14.2	12.7	11.2	12.8
NW	.7	9.4	22.0	9.8	.7	*		42.6	16.7	43.5	47.7	44.1	42.6	44.5	41.4	39.9	38.4
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	2.0							2.0	.0	2.2	2.0	1.3	2.4	1.3	1.9	2.2	2.7
TOT OBS	305	1532	2437	1008	67	1	5350		14.9	993	395	770	339	848	478	937	590
TOT PCT	5.7	28.6	45.6	18.8	1.3	*		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	2.5	10.5	11.9	2.0	.0		26.9	16.6	26.3	27.8	25.6	27.9
NE	.9	1.2	.7	.1	.0		2.8	11.9	2.7	2.1	2.7	3.7
E	.8	.7	.1	*	.0		1.6	8.5	1.2	.9	1.5	2.6
SE	.7	1.0	.2	.1	.0		1.9	9.4	1.7	1.6	2.5	1.9
S	1.2	2.4	.8	.1	.0		4.6	11.6	5.0	4.5	4.3	4.5
SW	1.8	2.9	.7	*	.0		5.3	10.0	5.4	4.8	5.0	3.9
W	2.4	6.7	2.6	.6	.0		12.3	12.9	10.7	13.2	13.6	11.8
NW	3.9	17.7	17.6	3.4	*		42.6	16.7	44.7	43.6	43.4	39.3
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	2.0						2.0	.0	2.2	1.6	1.5	2.4
TOT OBS	864	2297	1847	341	1	5350		14.9	1388	1109	1326	1527
TOT PCT	16.1	42.9	34.5	6.4	*		100.0		100.0	100.0	100.0	100.0

MARCH

PERIOD: (PRIMARY) 1945-1974
(OVER-ALL) 1871-1974

AREA 0033 SANTA ROSA IS. SW
32.7N 122.2W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	2.2	3.7	26.9	45.9	20.2	1.0	.0	15.0	100.0	1388
06&09	1.6	3.6	27.9	43.6	21.2	2.1	.0	15.5	100.0	1109
12&15	1.5	3.5	30.0	46.0	17.3	1.5	.1	14.8	100.0	1326
18&21	2.4	4.0	29.5	46.2	17.2	.7	.0	14.3	100.0	1527
TOT	105	200	1532	2437	1008	67	1	14.9		5350
PCT	2.0	3.7	28.6	45.6	18.8	1.3	*		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	10.5	4.6	10.9	5.9		4.3
NE	1.1	.4	1.0	.5		4.1
E	.4	.2	.3	.7		5.3
SE	.2	.2	.3	.6		5.8
S	.9	.4	1.2	1.5		5.5
SW	.9	.6	1.5	1.4		5.3
W	3.3	1.5	3.4	2.8		4.7
NW	14.0	5.6	12.7	8.1		4.2
VAR	.0	.0	.0	.0		.0
CALM	.9	.1	.5	.8		4.6
TOT OBS	1130	475	1120	784	3509	4.5
TOT PCT	32.2	13.5	31.9	22.3	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.1	*	.2	1.6	6.2	4.9	.8	.1	.1	.1	17.7	
NE	*	.0	*	.1	.4	.4	.1	*	*	*	1.8	
E	.1	.0	*	.2	.2	.2	*	.0	*	*	.8	
SE	.1	.0	*	.1	.3	.1	.1	.0	*	*	.7	
S	.1	.0	.2	.3	.8	.3	.2	*	*	.1	1.9	
SW	.2	.0	.2	.2	.8	.6	.1	*	*	*	2.2	
W	.1	*	.2	.7	1.7	1.3	.3	.1	.1	.2	6.2	
NW	.2	.1	.2	2.4	6.7	5.6	1.1	.3	.3	.1	23.4	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.1	.0	.0	*	.3	.5	.2	.0	*	*	1.3	
TOT OBS	31	6	33	199	609	491	104	22	24	24	1966	3509
TOT PCT	.9	.2	.9	5.7	17.4	14.0	3.0	.6	.7	.7	56.0	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM) * OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >50YD	* OR >0
* OR >8500	1.2	1.3	1.4	1.4	1.4	1.4	1.4	1.4
* OR >5000	1.8	2.0	2.0	2.0	2.0	2.0	2.0	2.0
* OR >3500	4.2	4.9	5.0	5.0	5.0	5.0	5.0	5.0
* OR >2000	15.4	18.7	18.9	18.9	18.9	18.9	18.9	18.9
* OR >1000	29.3	35.8	36.1	36.2	36.2	36.2	36.3	36.3
* OR >600	33.1	41.2	41.7	41.8	41.9	41.9	41.9	41.9
* OR >300	33.7	42.0	42.6	42.8	42.8	42.8	42.8	42.8
* OR >150	33.8	42.2	42.8	43.0	43.0	43.0	43.0	43.0
* OR > 0	33.9	42.4	43.1	43.4	43.5	43.6	43.9	43.9
TOTAL	1190	1492	1516	1525	1530	1533	1543	1544

TOTAL NUMBER OF OBS: 3515

PCT FREQ NH <5/8: 56.1

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
19.3	8.4	12.5	9.2	6.2	6.3	10.4	9.5	17.6 .7	3735

PERIOD: (PRIMARY) 1945-1974
(OVER-ALL) 1871-1974

AREA 0033 SANTA ROSA IS. SW
32.7N 122.2W

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	*	*	*	.0	.0	.0	.1	
	NO PCP	*	*	*	.1	.1	.1	.1	.1	.0	.1	.6	
	TOT %	*	*	*	.1	.1	.1	.1	.1	.0	.1	.6	
1/2<1	PCP	*	.0	.0	*	*	*	*	*	.0	.0	.1	
	NO PCP	.1	*	*	.1	.1	*	.1	.2	.0	.0	.6	
	TOT %	.2	*	*	.1	.1	*	.1	.2	.0	.0	.7	
1<2	PCP	.0	.0	.0	*	*	.0	*	*	.0	.0	.1	
	NO PCP	.1	*	.0	*	.0	.1	*	.2	.0	*	.4	
	TOT %	.1	*	.0	*	*	.1	*	.2	.0	*	.5	
2<5	PCP	*	.0	*	*	.1	.1	.1	.1	.0	.0	.4	
	NO PCP	.2	*	.1	*	.1	.1	.2	.7	.0	.1	1.5	
	TOT %	.2	*	.1	.1	.2	.2	.3	.8	.0	.1	1.9	
5<10	PCP	.2	*	*	.1	.1	.2	.2	.3	.0	.0	1.2	
	NO PCP	4.9	.5	.3	.2	.6	.9	2.2	7.5	.0	.2	17.1	
	TOT %	5.0	.5	.3	.3	.8	1.1	2.4	7.8	.0	.2	18.4	
10+	PCP	.1	*	*	*	.1	.2	.1	.2	.0	.0	.7	
	NO PCP	21.4	2.2	1.1	1.1	3.3	3.6	9.3	33.6	.0	1.6	77.2	
	TOT %	21.5	2.2	1.2	1.1	3.3	3.8	9.4	33.7	.0	1.6	77.9	
	TOT OBS												5111
	TOT PCT	27.1	2.8	1.6	1.7	4.5	5.2	12.3	42.9	.0	2.0	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	*	.0	*	*	*	*	.0	.0	.1	.2	
	4-10	*	*	*	*	*	*	.1	*	.0		.3	
	11-21	*	.0	.0	.0	.0	*	.1	.1	.0		.2	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.1	*	*	.1	.1	.1	.2	.2	.0	.1	.7	
1/2<1	0-3	*	.0	*	.0	.0	*	*	*	.0	.0	.1	
	4-10	*	*	*	.1	*	.0	*	*	.0		.3	
	11-21	.1	.0	.0	.0	*	.0	*	.1	.0		.3	
	22+	*	.0	.0	.0	*	*	*	*	.0		.1	
	TOT %	.1	*	*	.1	.1	*	.1	.2	.0	.0	.7	
1<2	0-3	.0	.0	.0	.0	.0	*	.0	.0	.0	*	*	
	4-10	*	*	.0	*	*	.1	*	.1	.0		.3	
	11-21	*	*	.0	.0	*	*	.1	.2	.0		.3	
	22+	*	.0	.0	*	*	.0	.0	.2	.0		.2	
	TOT %	.1	.1	.0	.1	.1	.1	.1	.4	.0	*	1.0	
2<5	0-3	.0	*	.0	*	*	.0	*	*	.0	.1	.2	
	4-10	.1	*	.1	.1	*	.1	.1	.3	.0		.8	
	11-21	.1	.0	*	*	.1	.1	.1	.4	.0		.8	
	22+	*	.0	.0	.0	.1	.0	.1	.2	.0		.3	
	TOT %	.3	*	.1	.1	.2	.2	.3	.9	.0	.1	2.2	
5<10	0-3	.1	*	.1	*	*	*	.2	.1	.0	.2	.7	
	4-10	1.0	.2	.1	.2	.3	.6	.7	1.4	.0		4.5	
	11-21	2.6	.2	.1	.1	.4	.2	1.2	4.3	.0		9.0	
	22+	1.2	.1	*	.1	.1	.2	.3	2.0	.0		3.9	
	TOT %	4.9	.5	.3	.3	.7	1.0	2.4	7.7	.0	.2	18.1	
10+	0-3	.6	.2	.2	.1	.2	.3	.5	.6	.0	1.6	4.4	
	4-10	4.8	1.0	.7	.8	1.5	2.0	3.9	7.5	.0		22.1	
	11-21	10.4	.7	.2	.3	1.5	1.3	3.7	17.0	.0		35.1	
	22+	5.6	.3	.1	*	.2	.1	1.2	8.2	.0		15.6	
	TOT %	21.4	2.2	1.1	1.3	3.4	3.7	9.3	33.3	.0	1.6	77.2	
	TOT OBS												5258
	TOT PCT	26.9	2.8	1.6	1.8	4.6	5.3	12.3	42.7	.0	2.0	100.0	

PERIOD: (PRIMARY) 1965-1974
(OVER-ALL) 1871-1974

AREA 0033 SANTA ROSA IS. SW
32.7N 122.2W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00&03	1.3	.1	1.1	5.6	19.4	14.4	2.8	.8	.4	.8	46.8	53.2	949
06&09	.5	.0	.2	4.0	15.0	11.8	2.7	.6	.6	.4	35.8	64.2	841
12&15	1.3	.2	1.1	5.0	14.6	12.9	2.8	.1	.8	.6	39.4	60.6	852
18&21	.5	.3	1.2	7.0	18.2	14.9	3.2	.8	.8	.8	47.7	52.3	983
TOT	32	6	33	199	613	492	105	22	24	24	1550	2075	3625
PCT	.9	.2	.9	5.5	16.9	13.6	2.9	.6	.7	.7	42.8	57.2	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00&03	.9	.9	1.2	2.9	16.6	77.4	1379
06&09	.3	.8	.4	2.1	18.5	77.9	1106
12&15	.8	.9	1.1	1.9	20.9	74.5	1319
18&21	.9	.3	1.0	2.0	16.7	79.0	1475
TOT	39	39	50	118	956	4077	5279
PCT	.7	.7	.9	2.2	18.1	77.2	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET, NH >4/8), BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	1.3	2.7	9.0	39.6	51.4	916
06&09	.5	.7	5.7	30.9	63.4	826
12&15	1.3	2.8	8.6	32.2	59.2	828
18&21	.5	2.3	9.8	39.7	50 5	945
TOT	32	76	293	1260	1962	3515
PCT	.9	2.2	8.3	35.8	55.8	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
75/79	.0	.0	*	.0	*	.0	.0	.0	2	.1
70/74	.0	*	.0	.1	.1	.1	.0	.0	11	.3
65/69	.0	.0	.1	.2	.7	.5	.3	*	75	1.9
60/64	.0	.0	.1	1.0	2.8	4.9	4.2	1.7	579	14.7
55/59	.0	*	.1	1.5	7.1	18.3	21.8	7.6	2223	56.4
50/54	.0	.0	.1	.5	5.0	6.6	10.2	3.6	1029	26.1
45/49	.0	.0	.0	*	.1	.1	.2	.1	23	.6
TOTAL	0	2	13	128	625	1212	1448	514	3942	100.0
PCT	.0	.1	.3	3.2	15.9	30.7	36.7	13.0		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.0	.0	.0	.0	*	*	.0	.0
.1	.0	.0	.0	.0	*	.0	.1	.0	*
.5	.1	*	*	.1	.1	.2	.7	.0	.1
3.6	.7	.3	.2	1.1	1.3	1.8	5.0	.0	.6
15.6	1.5	.9	.9	2.5	2.8	6.6	25.0	.0	.7
6.7	.5	.3	.2	.3	.5	3.2	14.3	.0	.2
.2	.0	.0	.0	*	.0	.1	.3	.0	.0
26.7	2.8	1.5	1.3	4.0	4.7	11.9	45.4	.0	1.6

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00&03	76	68	64	57	53	51	47	57.7	1391
06&09	68	63	60	56	52	49	48	55.8	1111
12&15	78	63	60	55	51	49	45	55.5	1327
18&21	76	68	64	57	53	50	46	57.7	1529
TOT	78	66	63	56	52	50	45	56.8	5358

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00&03	.0	3.8	18.7	31.9	32.7	12.9	78	1045
06&09	.0	2.7	13.7	28.2	41.9	13.6	80	824
12&15	.0	1.9	11.2	29.6	40.4	16.8	81	962
18&21	.0	5.7	18.7	32.2	33.7	9.7	77	1126
TOT	0	144	627	1213	1455	518	79	3957

PERIOD: (PRIMARY: 1945-1974
(OVER-ALL) 1871-1974

TABLE 17

AREA 0033 SANTA ROSA IS. SW
32.7N 122.2W

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	45 48	49 52	53 56	57 60	61 64	65 68	69 72	73 76	77 80	TOT	W FOG	WO FOG
17/19	.0	.0	.0	.0	.0	.0	.0	*	*	3	.0	.1
14/16	.0	.0	.0	.0	.0	*	.0	*	.0	3	.0	.1
11/13	.0	.0	.0	*	.0	.1	.2	*	.0	16	*	.3
9/10	.0	.0	.0	*	.2	.2	.1	.0	.0	30	.0	.6
7/8	.0	.0	*	.2	.7	.6	*	.0	.0	72	*	1.5
6	.0	.0	.1	.2	.7	.3	.0	.0	.0	63	*	1.3
5	.0	*	.1	.6	1.0	.2	.0	.0	.0	89	*	1.8
4	.0	*	.3	1.6	1.6	.1	.0	.0	.0	179	*	3.7
3	.0	*	.6	2.0	1.0	.1	.0	.0	.0	183	.1	3.7
2	.0	.1	1.4	3.6	1.9	*	.0	.0	.0	336	.4	6.5
1	.0	.0	2.5	4.8	1.1	*	.0	.0	.0	405	.2	8.2
0	.0	.3	4.9	7.3	1.0	.0	.0	.0	.0	651	.6	12.9
-1	.0	.4	6.4	5.7	.7	.0	.0	.0	.0	638	.3	12.9
-2	*	.8	8.2	4.4	.2	.0	.0	.0	.0	659	.4	13.3
-3	.0	.8	6.3	2.9	.1	*	.0	.0	.0	489	.2	9.9
-4	*	1.4	5.9	2.0	*	.0	.0	.0	.0	457	.2	9.3
-5	.1	1.2	3.2	1.0	.0	.0	.0	.0	.0	267	.2	5.4
-6	*	1.1	1.9	.1	*	.0	.0	.0	.0	156	*	3.2
-7/-8	.1	.7	1.1	.1	.0	.0	.0	.0	.0	95	*	1.9
-9/-10	.1	.1	.4	.1	.0	.0	.0	.0	.0	33	*	.7
-11/-13	*	.1	.1	*	.0	.0	.0	.0	.0	10	*	.2
-14/-16	.0	.0	*	.0	.0	.0	.0	.0	.0	2	.0	*
TOTAL	15	350	2098	1775	494	83	15	5	1	4836	138	4698
PCT	.3	7.2	43.4	36.7	10.2	1.7	.3	.1	*	100.0	2.9	97.1

PERIOD: (OVER-ALL) 1963-1974

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.4	.6	.0	.0	.0	.0	1.0
1-2	.3	3.1	2.2	.0	.0	.0	5.6
3-4	.0	2.8	5.5	.3	.0	.0	8.6
5-6	.0	1.1	3.4	1.3	.0	.0	5.8
7	.0	.1	2.5	2.4	.1	.0	5.1
8-9	.0	.1	.9	1.2	.0	.0	2.2
10-11	.0	.0	.1	.8	.1	.0	.9
12	.0	.0	.1	.5	.1	.0	.7
13-16	.0	.0	.1	.4	.0	.0	.6
17-19	.0	.0	.0	.1	.0	.0	.1
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.7	7.8	14.8	7.1	.2	.0	30.6

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	.1	.0	.0	.0	.0	.3
1-2	.1	.6	.3	.0	.0	.0	1.0
3-4	*	.2	.3	.2	.0	.0	.7
5-6	.0	.1	.2	.0	.0	.0	.3
7	.0	*	*	.1	.0	.0	.2
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	*	.0	.0	*
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	1.1	.9	.3	.0	.0	2.6

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.3	.0	.0	.0	.0	.5
1-2	.0	.6	.1	.0	.0	.0	.6
3-4	.1	.1	.0	.0	.0	.0	.2
5-6	.0	.0	.1	.0	.0	.0	.1
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	1.0	.1	.0	.0	.0	1.4

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	*	.4	.0	.0	.0	.0	.4
1-2	.0	.6	.2	.0	.0	.0	.8
3-4	.0	.3	.1	*	.0	.0	.4
5-6	.0	.1	.0	.0	.0	.0	.1
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.1	.0	.0	.0	.1
10-11	.0	.0	.0	.0	.1	.0	.1
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	*	1.4	.4	*	.1	.0	1.9

PERIOD: (OVER-ALL) 1963-1974

MARCH

AREA 0033 SANTA ROSA IS. SW
32.7N 122.2W

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

S

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.5	.0	.0	.0	.0	.5
1-2	.1	1.2	.3	.0	.0	.0	1.6
3-4	.0	.4	.5	.1	.0	.0	.9
5-6	.0	.2	.4	.0	.0	.0	.6
7	.0	.0	.2	.0	.0	.0	.2
8-9	.0	.0	.1	.0	.0	.0	.1
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.1	.0	.0	.0	.0	.1
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.1	2.3	1.5	.1	.0	.0	4.0

SW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.6	.0	.0	.0	.0	.6
1-2	*	.7	.4	.0	.0	.0	1.1
3-4	.1	.6	.8	.1	.0	.0	1.5
5-6	.0	*	.5	.0	.0	.0	.5
7	.0	.1	.0	.1	.0	.0	.2
8-9	.0	.0	.0	*	.0	.0	*
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	2.0	1.7	.2	.0	.0	4.0

W

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	.7	.0	.0	.0	.0	.9
1-2	.3	2.3	1.0	.0	.0	.0	3.6
3-4	.0	1.5	1.6	.4	.0	.0	3.5
5-6	.1	.1	1.1	.3	.0	.0	1.6
7	.0	.1	.6	.2	.0	.0	.9
8-9	.0	.0	.5	.1	.0	.0	.6
10-11	.0	.0	.0	.1	.0	.0	.1
12	.0	.0	.1	.1	.0	.0	.2
13-16	.0	.0	.0	.1	.0	.0	.1
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.6	4.7	4.9	1.2	.0	.0	11.5

NW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.2	1.6	.2	.0	.0	.0	1.9	
1-2	.4	6.0	3.1	.0	.0	.0	9.5	
3-4	.0	2.5	8.0	1.9	.0	.0	12.4	
5-6	.0	.5	6.0	1.7	.0	.0	8.2	
7	.0	.2	2.7	1.8	.2	.0	4.9	
8-9	.0	.1	1.7	.2	.1	.0	3.0	
10-11	.0	.0	.1	.7	.1	.0	.9	
12	.0	.0	.3	.6	.1	.0	1.0	
13-16	.0	.0	.1	.5	.3	.1	1.0	
17-19	.0	.0	.0	.2	.0	.0	.2	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.6	10.8	22.1	8.7	.8	.1	43.1	99.1

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	1.9	4.9	.2	.0	.0	.0	7.0	
1-2	1.4	15.1	7.6	.0	.0	.0	24.1	
3-4	.2	8.3	16.7	3.0	.0	.0	28.3	
5-6	.1	2.2	11.8	3.3	.0	.0	17.3	
7	.0	.5	6.1	4.7	.2	.0	11.5	
8-9	.0	.2	3.1	2.6	.1	.0	6.0	
10-11	.0	.0	.2	1.6	.2	.0	2.0	
12	.0	.0	.5	1.2	.2	.0	1.9	
13-16	.0	.1	.2	1.0	.3	.1	1.7	
17-19	.0	.0	.0	.3	.0	.0	.3	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	3.7	31.2	46.4	17.6	1.0	.1	100.0	1242

PERIOD: (OVER-ALL) 1949-1974

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	.9	7.0	11.1	7.0	3.3	1.6	.4	.2	.2	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	960	4
6-7	*	2.7	7.7	7.8	5.9	3.4	2.0	1.6	.6	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	959	6
8-9	*	.6	2.0	3.5	3.9	3.0	2.4	1.7	1.0	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	554	7
10-11	.0	.3	.6	.8	1.4	2.1	1.3	.6	.7	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	239	8
12-13	.0	.0	.6	.5	.6	.5	.8	.2	.3	.1	*	.0	.0	.0	.0	.0	.0	.0	.0	113	8
>13	.0	.0	.0	.3	.2	.3	.2	.1	.1	.1	.0	*	.0	.0	.0	.0	.0	.0	.0	38	9
INDET	2.2	.8	.7	.6	.3	.1	.1	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	151	3
TOTAL	95	345	687	615	470	329	217	139	89	21	6	1	0	0	0	0	0	0	0	3014	6
PCT	3.2	11.4	22.8	20.4	15.6	10.9	7.2	4.6	3.0	.7	.2	*	.0	.0	.0	.0	.0	.0	.0	100.0	

APRIL

PERIOD: (PRIMARY) 1945-1974
(OVER-ALL) 1858-1974

AREA 0033 SANTA ROSA IS. SW
32.7N 122.1W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	.4	.5	.6	.0	.0	.0	.1	1.3	.5	.0	2.6	.1	3.2		.0	92.3
NE	.0	1.7	2.3	.0	.0	.0	.0	4.0	.0	.0	5.7	.0	3.8		.0	86.4
E	3.4	1.1	1.7	.0	.0	.0	.0	6.3	.0	.0	6.9	.0	1.7		.0	85.1
SE	10.4	4.0	4.4	.0	.0	.0	.0	16.3	.4	.8	5.2	.0	7.6		.0	69.7
S	1.9	2.7	3.5	.0	.0	.0	.0	7.7	4.3	.4	3.3	.0	4.3		.0	80.1
SW	2.1	2.1	2.3	.0	.0	.0	.0	6.3	4.6	.0	3.5	.0	1.7		.0	83.9
W	1.1	1.4	2.2	.0	.0	.0	.0	4.2	2.4	.3	4.2	.1	1.5		.2	87.1
NW	.4	.6	.9	.0	.0	.0	.0	1.7	.6	*	2.8	*	3.0		*	91.7
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	.0
CALM	.0	.0	1.5	.0	.0	.0	.0	1.5	.0	.0	22.7	1.5	3.0		.0	71.2
TOT PCT	.8	.8	1.2	.0	.0	.0	*	2.6	1.0	.1	3.4	.1	2.9		*	89.9
TOT OBS:	4731															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00&03	.5	.8	1.2	.0	.0	.0	.0	2.2	1.4	.0	2.9	.0	3.6		.0	90.0
06&09	.4	1.0	.9	.0	.0	.0	.0	2.2	1.0	.1	2.8	.0	1.5		.0	92.3
12&15	.8	1.1	1.5	.0	.0	.0	.0	3.3	.9	.3	4.1	.0	2.7		.1	88.6
18&21	1.2	.5	1.2	.0	.0	.0	.1	2.6	.7	.0	3.9	.2	3.6		.1	89.0
TOT PCT	.8	.8	1.2	.0	.0	.0	*	2.6	1.0	.1	3.4	.1	2.9		*	89.9
TOT OBS:	4733															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	.4	4.8	14.9	7.4	.5	.0		28.1	17.5	29.2	20.8	29.1	24.5	26.5	31.5	29.6	29.1
NE	.1	1.3	1.4	.2	*	.0		3.0	12.0	2.3	2.7	2.4	1.4	2.3	3.5	4.9	4.1
E	.2	.6	.2	*	.0	.0		1.0	7.1	.7	.4	.6	.4	1.0	2.0	1.6	.8
SE	.1	.6	.5	.1	.0	.0		1.3	11.2	1.1	1.7	1.1	1.3	1.0	.9	1.8	1.5
S	.2	1.2	1.2	.2	.0	.0		2.7	11.7	3.0	2.9	2.8	2.5	2.8	2.6	2.2	2.8
SW	.3	1.9	1.4	.3	*	.0		4.0	10.9	3.9	3.6	3.6	4.6	3.7	3.5	3.7	5.8
W	.6	4.9	5.7	1.4	.1	.0		12.8	12.9	11.7	13.6	13.6	12.4	14.9	9.6	13.3	11.4
NW	.5	8.9	23.9	11.3	1.0	.0		45.6	17.2	46.8	53.5	45.0	50.6	46.4	45.4	40.8	43.4
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.5							1.5	.0	1.4	.8	1.8	2.0	1.3	1.0	2.0	1.2
TOT OBS	196	1188	2411	1029	79	0	4903		15.8	961	367	765	249	796	405	879	481
TOT PCT	4.0	24.2	49.2	21.0	1.6	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)				
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21	
N	1.9	10.6	13.2	2.4	*		28.1	17.5	26.9	27.9	28.2	29.4	
NE	.7	1.6	.7	*	.0		3.0	12.0	2.4	2.1	2.7	4.6	
E	.6	.3	.1	*	.0		1.0	7.1	.6	.6	1.4	1.3	
SE	.3	.7	.3	*	.0		1.3	11.2	1.3	1.2	1.0	1.7	
S	.6	1.5	.6	*	.0		2.7	11.7	3.0	2.7	2.7	2.4	
SW	1.2	2.1	.6	.1	.0		4.0	10.9	3.8	3.9	3.6	4.4	
W	2.3	7.0	3.0	.5	.0		12.8	12.9	12.2	13.3	13.1	12.6	
NW	2.6	20.4	18.4	4.3	*		45.6	17.2	48.6	46.4	46.1	41.7	
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	
CALM	1.5						1.5	.0	1.2	1.9	1.2	1.8	
TOT OBS	570	2170	1803	358	2	4903		15.8	1328	1014	1201	1340	
TOT PCT	11.6	44.3	36.8	7.3	*		100.0		100.0	100.0	100.0	100.0	

APRIL

PERIOD: (PRIMARY) 1945-1974
(OVER-ALL) 1858-1974

AREA 0033 SANTA ROSA IS. SW
32.7N 122.1W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	1.2	2.0	21.3	51.1	22.9	1.6	.0	16.4	100.0	1328
06&09	1.9	1.9	23.2	49.6	21.4	2.1	.0	16.1	100.0	1014
12&15	1.2	2.2	26.8	49.5	18.4	1.9	.0	15.4	100.0	1201
18&21	1.8	3.8	25.6	46.8	21.1	1.0	.0	15.2	100.0	1360
TOT	73	123	1188	2411	1029	79	0	15.8		4903
PCT	1.5	2.5	24.2	49.2	21.0	1.6	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	8.1	4.5	9.9	7.7		4.8
NE	.5	.5	.9	1.2		5.7
E	.1	.1	.1	.4		6.2
SE	.3	.1	.3	.4		5.1
S	.4	.2	.7	1.4		6.1
SW	.8	.5	1.1	1.7		5.6
W	2.9	2.1	4.2	3.9		5.1
NW	12.7	6.7	11.8	12.1		4.6
VAR	.0	.0	.0	.0		.0
CALM	.3	.2	.3	.8		5.7
TOT OBS	888	502	992	1001	3383	4.9
TOT PCT	26.2	14.8	29.3	29.6	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.3	.2	.5	2.4	4.9	7.0	.5	.2	.1	.1	14.3	
NE	.1	*	.1	.1	.4	1.1	.1	.0	.0	.0	1.1	
E	*	.0	.0	.1	.2	.2	.0	.0	*	.0	.3	
SE	*	.0	.1	.1	.3	.2	.0	.0	.0	.0	.5	
S	.1	*	.1	.3	.5	.7	.1	*	.0	.0	.9	
SW	.1	.0	.1	.4	.7	.7	.1	*	*	.1	1.9	
W	.2	.1	.2	.5	3.1	2.4	.2	.1	*	.1	6.3	
NW	.4	.2	.5	3.1	8.1	8.0	.5	.2	*	.2	22.0	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.1	*	.1	.1	.4	.3	*	.0	.1	.0	.6	
TOT OBS	45	20	56	241	629	691	50	16	10	12	1613	3383
TOT PCT	1.3	.6	1.7	7.1	18.6	20.4	1.5	.5	.3	.4	47.7	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM) * OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >50YD	* OR >0
* OR >6500	.6	.6	.6	.6	.6	.6	.6	.6
* OR >5000	.9	1.1	1.1	1.1	1.1	1.1	1.1	1.1
* OR >3500	2.2	2.5	2.6	2.6	2.6	2.6	2.6	2.6
* OR >2000	16.6	22.6	22.8	22.9	22.9	22.9	23.0	23.0
* OR >1000	30.5	40.8	41.2	41.3	41.4	41.4	41.5	41.5
* OR >600	35.3	47.6	48.3	48.5	48.5	48.6	48.6	48.6
* OR >300	36.2	49.1	49.9	50.1	50.2	50.3	50.3	50.3
* OR >150	36.4	49.6	50.5	50.7	50.8	50.8	50.9	50.9
* OR > 0	36.5	49.9	50.9	51.3	51.5	51.8	52.1	52.2
TOTAL	1239	1693	1729	1741	1748	1760	1769	1772

TOTAL NUMBER OF OBS: 3395 PCT FREQ NH <5/8: 47.8

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
10.1	5.8	10.6	8.4	6.9	6.6	9.9	9.9	24.9	1.0	3531

APRIL

PERIOD: (PRIMARY) 1945-1974
(OVER-ALL) 1858-1974

AREA 0033 SANTA RUSA IS. SW
32.7N 122.1W

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	PCP	*	.0	.0	.0	.0	.0	.0	*	.0	.0	*	
<1/2	NO PCP	.2	*	*	*	*	*	.1	.2	.0	.1	.6	
	TOT %	.2	*	*	*	*	*	.1	.2	.0	.1	.7	
	PCP	.0	*	.0	.0	.0	.0	*	*	.0	.0	*	
1/2<1	NO PCP	.1	.0	.0	*	*	.0	.1	.2	.0	*	.4	
	TOT %	.1	*	.0	*	*	.0	.1	.2	.0	*	.5	
	PCP	.0	.0	*	*	.0	*	.1	*	.0	.0	.2	
1<2	NO PCP	.2	*	*	*	*	*	.1	.3	.0	*	.7	
	TOT %	.2	*	*	.1	*	.1	.2	.3	.0	*	.9	
	PCP	.1	*	.0	*	*	*	.1	.1	.0	.0	.4	
2<5	NO PCP	.3	.1	*	*	.1	.1	.3	.9	.0	.1	2.1	
	TOT %	.4	.1	*	.1	.1	.2	.5	1.0	.0	.1	2.4	
	PCP	.1	.1	*	.2	.2	.1	.2	.4	.0	*	1.4	
5<10	NO PCP	6.2	.8	.3	.3	1.0	1.0	2.3	9.4	.0	.4	21.7	
	TOT %	6.3	.9	.4	.4	1.1	1.2	2.5	9.8	.0	.4	23.0	
	PCP	.2	*	.0	.0	*	*	.2	.2	.0	.0	.6	
10+	NO PCP	20.7	1.9	.5	.7	1.4	2.5	9.6	33.9	.0	.8	71.9	
	TOT %	20.9	2.0	.5	.7	1.4	2.5	9.7	34.1	.0	.8	72.5	
	TOT OBS												4727
	TOT PCT	28.0	3.0	.9	1.3	2.7	4.0	13.0	45.7	.0	1.4	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	0-3	.0	.0	.0	.0	.0	.0	*	*	.0	.1	.1	
<1/2	4-10	.2	*	*	*	*	*	.1	.1	.0		.5	
	11-21	*	.0	.0	.0	.0	*	*	.1	.0		.2	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.2	*	*	*	*	*	.1	.3	.0	.1	.7	
	0-3	.0	.0	.0	.0	.0	.0	.0	*	.0	*	*	
1/2<1	4-10	*	*	.0	*	*	.0	*	.1	.0		.2	
	11-21	.1	.0	.0	.0	.0	.0	*	.1	.0		.2	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.1	*	.0	*	*	.0	.1	.2	.0	*	.5	
	0-3	*	.0	.0	*	.0	*	*	.1	.0	*	.2	
1<2	4-10	.1	*	*	*	.0	*	.1	.1	.0		.4	
	11-21	*	.0	.0	*	*	.0	.1	.1	.0		.3	
	22+	*	.0	.0	.0	.0	*	*	*	.0		.1	
	TOT %	.2	*	*	.1	*	.1	.2	.3	.0	*	1.0	
	0-3	.0	*	*	.0	.0	.0	.1	*	.0	.1	.3	
2<5	4-10	.1	.1	.1	*	*	.1	.2	.2	.0		.8	
	11-21	.2	*	.0	*	.1	.1	.1	.6	.0		1.1	
	22+	.1	*	.0	.0	.0	*	.1	.3	.0		.5	
	TOT %	.4	.1	.1	.1	.1	.2	.4	1.1	.0	.1	2.7	
	0-3	.1	.1	.1	*	.1	.1	.1	.1	.0	.4	1.1	
5<10	4-10	1.1	.3	.2	.2	.5	.6	1.0	2.4	.0		6.2	
	11-21	3.2	.4	.1	.2	.5	.4	1.1	4.5	.0		10.3	
	22+	1.8	.1	*	*	.1	.1	.3	2.7	.0		5.1	
	TOT %	6.3	.9	.4	.4	1.1	1.1	2.4	9.7	.0	.4	22.8	
	0-3	.3	.1	.1	.1	.1	.1	.4	.3	.0	.8	2.3	
10+	4-10	3.1	.8	.3	.3	.6	1.2	3.6	5.9	.0		15.9	
	11-21	11.3	1.0	.1	.3	.6	1.0	4.5	18.5	.0		37.2	
	22+	6.2	.1	.0	.1	.1	.1	1.2	9.4	.0		17.1	
	TOT %	20.9	1.9	.5	.7	1.4	2.5	9.0	34.1	.0	.8	72.4	
	TOT OBS												4811
	TOT PCT	28.1	3.0	1.0	1.3	2.8	3.9	12.9	45.7	.0	1.4	100.0	

APRIL

PERIOD: (PRIMARY) 1965-1974
(OVER-ALL) 1858-1974

AREA 0033 SANTA ROSA IS. SW
32.7N 122.1W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00&03	1.2	.6	1.4	6.4	18.1	19.3	2.0	.5	.2	.4	50.3	49.7	933
06&09	1.6	1.0	1.0	6.5	17.7	18.8	.7	.2	.2	.5	48.3	51.7	817
12&15	1.5	.5	1.9	6.9	18.1	20.6	1.0	.6	.4	.2	51.7	48.3	807
18&21	1.0	.2	2.3	8.1	18.8	21.2	2.1	.4	.3	.2	54.7	45.3	905
TOT	45	20	57	242	630	692	52	16	10	12	1776	1686	3462
PCT	1.3	.6	1.6	7.0	18.2	20.0	1.5	.5	.3	.3	51.3	48.7	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00&03	.4	.6	.8	2.9	22.6	72.8	1317
06&09	1.0	.6	.9	1.7	21.8	74.0	1009
12&15	1.3	.6	.9	2.7	24.4	70.1	1191
18&21	.5	.2	1.2	3.1	22.3	72.7	1317
TOT	36	24	46	128	1102	3498	4834
PCT	.7	.5	1.0	2.6	22.8	72.4	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET, NH >4/8), BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	1.2	3.4	10.8	40.9	48.3	911
06&09	1.6	4.0	11.4	37.8	50.8	807
12&15	1.5	4.2	12.3	40.7	47.0	791
18&21	1.0	3.6	12.5	43.5	44.0	886
TOT	45	128	398	1385	1612	3395
PCT	1.3	3.8	11.7	40.8	47.5	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
75/79	.0	.0	*	*	.0	.0	.0	.0	2	.1
70/74	.0	.0	*	.1	.2	*	*	.0	11	.3
65/69	.0	.0	.1	.3	.6	.9	.5	.3	102	2.7
60/64	.0	.0	.3	.8	2.9	6.8	5.0	1.7	658	17.4
55/59	.0	.1	*	1.6	6.4	18.0	23.1	8.6	2181	57.8
50/54	.0	.0	.1	.5	2.1	3.6	9.7	5.4	807	21.4
45/49	.0	.0	.0	.0	.0	*	.1	.2	12	.3
TOTAL	0	2	20	120	460	1108	1450	613	3773	100.0
PCT	.0	.1	.5	3.2	12.2	29.4	38.4	16.2		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
	*	.0	.0	.0	.0	.0	.0	*	.0	.0
	*	*	.0	*	*	.0	.1	.1	.0	*
	.8	.1	.1	*	.1	.1	.5	.9	.0	.1
	4.3	.6	.3	.5	.9	1.2	2.8	6.6	.0	.4
	18.0	2.0	.5	.6	1.1	1.5	6.7	26.9	.0	.6
	4.6	.5	.2	.1	.2	.3	2.7	12.6	.0	.1
	.1	.0	.0	.0	*	*	*	.2	.0	.0
	27.8	3.2	1.0	1.2	2.3	3.1	12.8	47.2	.0	1.3

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00&03	77	68	65	58	53	52	49	58.2	1325
06&09	67	64	61	56	52	50	48	56.3	1014
12&15	70	64	60	56	52	50	48	56.0	1199
18&21	77	68	65	58	53	51	46	58.3	1362
TOT	77	67	63	57	52	50	46	57.3	4900

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00&03	.0	4.1	15.4	32.7	36.1	11.7	78	1065
06&09	.0	2.9	9.3	25.3	41.9	20.7	82	767
12&15	.0	3.2	9.1	24.3	40.6	22.8	82	916
18&21	.0	4.6	14.1	33.2	36.4	11.6	78	1041
TOT	0	143	465	1111	1456	614	80	3789

PERIOD: (PRIMARY) 1965-1974
(OVER-ALL) 1858-1974

AREA 0093 SANTA ROSA IS. SW
32.7N 122.1W

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	45 48	49 52	53 56	57 60	61 64	65 68	69 72	73 76	77 80	TOT	W FOG	WO FOG
20/22	.0	.0	.0	.0	.0	.0	.0	.0	*	2	.0	*
17/19	.0	.0	.0	.0	.0	*	.0	*	.0	2	.0	*
14/16	.0	.0	.0	.0	.0	*	*	*	.0	4	.0	.1
11/13	.0	.0	.0	.0	.2	.1	.2	*	.0	20	.0	.4
9/10	.0	.0	.0	*	.2	.5	.1	.0	.0	38	.1	.8
7/8	.0	.0	.0	.2	.6	.6	*	*	.0	71	*	1.5
6	.0	.0	.0	.4	.6	.4	*	.0	.0	61	*	1.3
5	.0	.0	.1	.6	1.2	.4	.0	.0	.0	105	*	2.3
4	.0	*	.5	1.0	1.5	.2	*	.0	.0	148	.1	3.2
3	.0	.1	.5	2.2	1.7	.1	.0	.0	.0	206	.1	4.5
2	.0	.2	1.6	3.9	2.0	.3	.0	.0	.0	356	.3	7.6
1	.0	.1	2.4	5.0	1.8	*	.0	.0	.0	423	.2	9.2
0	.0	.6	4.6	7.8	1.0	*	*	.0	.0	630	.5	13.5
-1	.0	.9	5.2	7.1	.4	*	.0	.0	.0	611	.6	13.0
-2	*	.8	6.2	5.8	.3	*	.0	.0	.0	592	.5	12.7
-3	.0	.9	5.2	3.4	.2	.0	.0	.0	.0	434	.2	9.4
-4	.0	.8	4.7	1.6	*	.0	.0	.0	.0	322	.2	7.0
-5	*	.5	3.1	1.3	.1	.0	.0	.0	.0	223	.2	4.8
-6	*	.3	1.6	.3	.0	.0	.0	.0	.0	101	*	2.2
-7/-8	.1	.3	1.6	.4	.0	.0	.0	.0	.0	109	.3	2.1
-9/-10	.0	.1	.4	.1	.0	.0	.0	.0	.0	26	.0	.6
-11/-13	.0	.1	.1	.1	.0	.0	.0	.0	.0	15	.0	.3
-14/-16	.0	.0	.1	.0	.0	.0	.0	.0	.0	3	*	*
TOTAL	7	255	1703	1557	527	127	19	5	2	4502	152	4350
PCT	.2	5.7	37.8	41.2	11.7	2.8	.4	.1	*	100.0	3.4	96.6

PERIOD: (OVER-ALL) 1963-1974

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	.2	.1	.0	.0	.0	.5
1-2	.2	1.8	3.2	.0	.0	.0	5.2
3-4	.0	1.4	4.9	1.4	.0	.0	7.6
5-6	.0	.3	3.6	1.3	.0	.0	5.2
7	.0	.4	3.5	2.3	.2	.0	6.4
8-9	.0	.0	.9	.8	.0	.0	1.7
10-11	.0	.0	.7	1.3	.0	.0	2.0
12	.0	.0	.0	.1	.0	.0	.1
13-16	.0	.0	.0	.1	.2	.0	.3
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.4	4.1	16.8	7.3	.4	.0	29.0

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.3	.0	.0	.0	.0	.3
1-2	.1	.6	.9	.0	.0	.0	1.6
3-4	.0	1.1	.3	*	.0	.0	1.4
5-6	.1	.0	.2	.0	.0	.0	.3
7	.0	.0	.3	*	*	.0	.4
8-9	.0	.0	*	.0	.0	.0	*
10-11	.0	.0	*	.0	.0	.0	*
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.1	.4	.4	.1	*	.0	1.0

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	.5	.0	.0	.0	.0	.7
1-2	.0	.3	.1	.0	.0	.0	.3
3-4	.0	.1	.0	.0	.0	.0	.1
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	.9	.1	.0	.0	.0	1.2

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.0	.0	.0	.0	.0	.1
1-2	*	.4	.1	.0	.0	.0	.5
3-4	.0	.2	.1	.0	.0	.0	.4
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	*	.0	.0	.0	*
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.1	.6	.3	.0	.0	.0	1.0

PERIOD: (OVER-ALL) 1963-1974 APRIL AREA 0033 SANTA ROSA IS. SW

TABLE 18 (CONT) 32.7N 122.1W

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

S

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.1	.0	.0	.0	.0	.1
1-2	.1	.7	.2	.0	.0	.0	1.0
3-4	.0	.2	.6	.0	.0	.0	.8
5-6	.0	.1	.5	.0	.0	.0	.5
7	.0	.0	.1	.0	.0	.0	.1
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.1	1.1	1.4	.0	.0	.0	2.6

SW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	*	.0	.0	.0	.0	*
1-2	.1	.7	.1	.0	.0	.0	.9
3-4	.0	.4	.5	.0	.0	.0	.9
5-6	.0	*	.4	.0	.0	.0	.4
7	.0	.1	.0	.1	.0	.0	.2
8-9	.0	.0	.3	.1	.0	.0	.4
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	1.3	1.3	.2	.0	.0	2.8

W

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.4	.1	.0	.0	.0	.7
1-2	.0	2.2	1.3	.0	.0	.0	3.5
3-4	.0	1.5	2.3	.2	.0	.0	4.0
5-6	.0	.7	1.6	.4	.0	.0	2.7
7	.0	.2	.5	.2	.0	.0	.9
8-9	.0	.1	.6	.2	.0	.0	.9
10-11	.0	.0	.1	.2	.0	.0	.3
12	.0	.0	.1	.1	.0	.0	.2
13-16	.0	.0	.1	.0	.0	.0	.1
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.1	5.2	6.7	1.3	.0	.0	13.3

NW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.1	.7	*	.0	.0	.0	.9	
1-2	.3	4.3	4.4	.0	.0	.0	9.0	
3-4	.1	2.9	8.1	1.2	.0	.0	12.2	
5-6	.0	.7	5.7	1.9	.1	.0	8.4	
7	.0	.5	3.9	2.8	.2	.0	7.4	
8-9	.0	.3	1.4	1.7	.2	.0	3.6	
10-11	.0	.0	.4	1.0	.1	.0	1.4	
12	.0	.0	.2	.6	.0	.0	.7	
13-16	.0	.0	.2	.7	.2	.0	1.1	
17-19	.0	.0	.0	.1	.2	.0	.3	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.5	9.4	24.2	9.9	1.0	.0	45.0	98.8

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	1.7	2.5	.2	.0	.0	.0	4.4	
1-2	.9	10.9	10.3	.0	.0	.0	22.1	
3-4	.1	7.9	16.7	2.9	.0	.0	27.5	
5-6	.1	1.9	11.9	3.5	.1	.0	17.4	
7	.0	1.3	8.3	5.4	.4	.0	15.4	
8-9	.0	.3	3.2	2.8	.2	.0	6.6	
10-11	.0	.0	1.2	2.4	.1	.0	3.7	
12	.0	.0	.3	.8	.0	.0	1.1	
13-16	.0	.0	.3	.9	.4	.0	1.5	
17-19	.0	.0	.0	.1	.2	.0	.3	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	2.8	24.7	52.4	18.7	1.4	.0	100.0	1170

PERIOD: (OVER-ALL) 1949-1974 TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	.8	12.4	12.1	5.9	3.3	1.3	1.0	.1	.6	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	1100	4
6-7	.0	1.8	5.9	5.8	7.7	3.7	1.2	.6	.9	*	*	*	.0	.0	.0	.0	.0	.0	.0	811	6
8-9	*	.6	2.0	2.8	4.9	3.7	2.2	1.0	.8	.2	*	.0	*	.0	.0	.0	.0	.0	.0	534	7
10-11	.0	.8	.7	.8	1.3	1.5	.9	.8	.5	.1	*	.0	.0	.0	.0	.0	.0	.0	.0	216	7
12-13	.0	.0	.5	.1	.4	.7	.6	.3	.4	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	91	9
>13	.0	.0	.0	.1	.1	*	.2	.1	.3	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	24	11
INDET	3.0	.7	.4	.4	.2	.2	.1	*	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	148	2
TOTAL	114	479	832	464	593	323	182	81	103	17	4	1	1	0	0	0	0	0	0	2924	5
PCT	3.9	16.4	21.6	15.9	17.9	11.0	6.2	2.8	3.5	.6	.1	*	*	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1965-1973
(OVER-ALL) 1873-1973

AREA 0033 SANTA ROSA IS. SW
32.6N 122.2W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	.1	.3	.7	.0	.0	.0	.0	1.1	.8	.0	1.2	.1	1.8		.1	94.9
NE	.0	.6	1.1	.0	.0	.0	.0	1.7	.6	.0	2.6	.9	2.6		.0	91.8
E	5.3	.0	2.7	.0	.0	.0	.0	8.0	5.3	.0	5.3	5.3	6.7		.0	69.3
SE	2.7	.5	.9	.0	.0	.0	.0	4.1	.9	.0	10.9	.0	1.8		.0	82.3
S	1.5	.9	.6	.0	.0	.0	.0	3.0	1.2	.0	.0	.0	4.8		.0	90.9
SW	2.4	1.1	2.2	.0	.0	.0	.0	4.9	1.4	.0	2.2	.2	3.6		.0	87.7
W	.4	.8	.7	.0	.0	.0	.0	1.6	.6	.0	3.6	.1	2.2		.0	92.0
NW	.1	.7	.9	.0	.0	.0	.0	1.8	.8	.0	1.9	*	1.9		.0	93.6
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	.0
CALM	.0	2.5	.0	.0	.0	.0	.0	2.5	.0	.0	2.5	.0	2.5		.0	92.5
TOT PCT	.3	.7	.9	.0	.0	.0	.0	1.7	.8	.0	2.0	.1	2.0		*	93.3
TOT OBS:	4903															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00&03	.1	.8	.6	.0	.0	.0	.0	1.4	.2	.0	1.7	.2	2.9		.0	93.6
06&09	.3	.6	1.2	.0	.0	.0	.0	1.9	1.0	.0	2.8	.0	2.0		.0	92.4
12&15	.3	.8	1.4	.0	.0	.0	.0	2.5	1.0	.0	2.4	.1	1.6		.1	92.3
18&21	.4	.4	.3	.0	.0	.0	.0	1.1	.9	.0	1.5	.1	1.6		.0	94.7
TOT PCT	.3	.7	.9	.0	.0	.0	.0	1.7	.8	.0	2.0	.1	2.0		*	93.3
TOT OBS:	4917															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	.5	4.9	15.9	6.1	.2	.0		27.6	16.7	28.6	24.2	27.0	25.9	25.2	26.3	32.5	26.2
NE	.1	.8	.6	.2	.0	.0		1.7	12.3	1.4	1.4	2.0	.9	2.0	1.9	1.8	2.1
E	.1	.3	*	*	.0	.0		.4	6.7	.3	.2	.5	.2	.2	.7	.5	.3
SE	.1	.8	.3	.0	.0	.0		1.1	7.9	1.3	.9	1.1	2.1	1.1	1.0	1.0	1.0
S	.3	1.1	.3	.0	.0	.0		1.7	7.8	1.9	1.1	1.6	1.9	1.6	1.3	1.7	2.2
SW	.3	1.6	.8	.1	.0	.0		2.8	8.7	2.3	2.4	2.5	3.8	2.9	3.5	2.8	3.5
W	.7	5.8	9.6	1.2	.1	.0		13.4	12.4	12.0	18.5	14.8	14.2	12.9	16.3	9.4	14.4
NW	.7	10.2	28.4	10.4	.8	.0		50.5	16.6	51.3	51.1	49.8	50.8	52.5	48.5	49.3	50.1
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.8							.8	.0	.9	.2	.6	.3	1.4	.4	1.1	.2
TOT OBS	179	1291	2636	911	55	0	5072		15.3	885	401	775	291	839	473	918	491
TOT PCT	3.5	25.5	52.0	18.0	1.1	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	1.7	12.2	12.0	1.6	*		27.6	16.7	27.3	26.7	25.6	30.3
NE	.4	.8	.4	.1	.0		1.7	12.3	1.4	1.7	2.0	1.9
E	.2	.1	*	*	.0		.4	6.7	.3	.4	.4	.4
SE	.6	.5	.1	.0	.0		1.1	7.9	1.2	1.4	1.0	1.0
S	.8	.8	.1	.0	.0		1.7	7.8	1.7	1.7	1.5	1.8
SW	1.1	1.6	.1	*	.0		2.8	8.7	2.3	2.8	3.1	3.0
W	2.8	7.4	2.8	.4	*		13.4	12.4	14.0	14.6	14.2	11.1
NW	3.2	22.9	21.0	3.3	.1		50.5	16.6	51.2	50.1	51.1	49.6
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	.8						.8	.0	.7	.6	1.1	.8
TOT OBS	586	2357	1848	275	6	5072		15.3	1286	1066	1311	1409
TOT PCT	11.5	46.5	36.4	5.4	.1		100.0		100.0	100.0	100.0	100.0

PERIOD: (PRIMARY) 1945-1973
(OVER-ALL) 1873-1973

AREA 0033 SANTA ROSA IS, SM
32.6N 122.2W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	.7	1.4	23.9	55.8	17.2	1.0	.0	15.6	100.0	1236
06&09	.6	3.3	25.5	49.3	20.0	1.3	.0	15.5	100.0	1066
12&15	1.1	2.8	25.8	50.6	18.5	1.2	.0	15.4	100.0	1311
18&21	.8	3.5	26.5	51.7	16.7	.9	.0	14.9	100.0	1409
TOT	40	139	1291	2636	911	55	0	15.3		5072
PCT	.8	2.7	25.5	52.0	18.0	1.1	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	6.8	3.3	11.9	9.5		5.3
NE	.4	.2	.5	.7		5.3
E	*	*	.1	.2		6.2
SE	.2	.1	.4	.5		6.0
S	.3	.2	.4	.7		5.6
SW	.6	.3	.9	.9		5.5
W	3.3	1.5	2.5	3.9		4.9
NW	12.5	5.4	13.6	17.2		5.1
VAR	.0	.0	.0	.0		.0
CALM	.4	.1	.2	.3		4.6
TOT OBS	846	384	1056	1173	3459	5.2
TOT PCT	24.5	11.1	30.5	33.9	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NM >4/8) AND OCCURRENCE OF NM <5/8 BY WIND DIRECTION

	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NM <5/8 ANY HGT	TOTAL OBS
N	.2	.0	.4	1.8	7.6	7.8	1.8	*	*	.1	12.0	
NE	*	.0	.1	.1	.2	.6	.1	.0	.0	*	.8	
E	.0	.0	.0	.1	.1	.1	.0	.0	.0	.0	.1	
SE	.1	.0	.0	.1	.2	.1	.1	.0	.1	.0	.4	
S	.0	.0	.0	.1	.3	.3	.2	.0	*	.0	.7	
SW	*	.0	.1	.1	.6	.5	.3	.0	*	.0	1.1	
W	.2	.1	.1	.6	2.1	2.1	.4	*	.1	.1	5.6	
NW	.3	.2	.8	3.3	10.8	10.5	1.7	.2	.1	.1	20.8	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.1	.2	.1	.1	.0	*	.0	.5	
TOT OBS	27	9	49	213	759	765	158	7	15	8	1449	3459
TOT PCT	.8	.3	1.4	6.2	21.9	22.1	4.6	.2	.4	.2	41.9	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NM >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM) * OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >50YD	* OR >0
* OR >6500	.5	.6	.7	.7	.7	.7	.7	.7
* OR >5000	.6	.8	.9	.9	.9	.9	.9	.9
* OR >3500	4.8	5.3	5.4	5.4	5.4	5.4	5.4	5.4
* OR >2000	24.2	27.5	27.6	27.6	27.6	27.6	27.6	27.6
* OR >1000	40.6	49.2	49.5	49.5	49.5	49.5	49.5	49.5
* OR >600	44.9	55.4	55.7	55.7	55.7	55.7	55.7	55.7
* OR >300	45.6	56.6	57.0	57.1	57.1	57.1	57.1	57.1
* OR >150	45.7	56.8	57.2	57.3	57.3	57.3	57.3	57.3
* OR > 0	45.8	57.0	57.5	57.6	57.7	57.8	58.1	58.1
TOTAL	1385	1972	1990	1995	1998	2002	2011	2011

TOTAL NUMBER OF OBS: 3462 PCT FREQ NM <5/8: 41.9

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
13.9	7.1	9.7	6.3	5.5	4.7	9.0	13.6	30.3 .6	3601

PERIOD: (PRIMARY) 1945-1973
(OVER-ALL) 1873-1973

AREA 0033 SANTA ROSA IS. SW
32.0N 122.2W

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.1	*	*	.1	.0	*	.1	.1	.0	.0	.4	
	TOT %	.1	*	*	.1	.0	*	.1	.1	.0	.0	.4	
1/2<1	PCP	*	.0	.0	.0	.0	.0	.0	.1	.0	.0	.1	
	NO PCP	*	.0	.0	.0	.0	*	*	.1	.0	.0	.1	
	TOT %	*	.0	.0	.0	.0	*	*	.1	.0	.0	.2	
1<2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	*	.0	.0	.0	.0	*	.1	.1	.0	.0	.2	
	TOT %	*	.0	.0	.0	.0	*	.1	.1	.0	.0	.2	
2<5	PCP	*	.0	.0	.0	*	*	.1	.1	.0	.0	.2	
	NO PCP	.3	.0	.0	*	.0	*	.2	.8	.0	.0	1.3	
	TOT %	.3	.0	.0	*	*	*	.3	.8	.0	.0	1.5	
5<10	PCP	.2	*	*	*	*	.1	.1	.6	.0	.0	1.1	
	NO PCP	4.4	.3	.1	.2	.3	.5	2.2	9.0	.0	.1	17.2	
	TOT %	4.6	.4	.1	.3	.3	.6	2.3	9.6	.0	.1	18.3	
10+	PCP	.1	.0	.0	*	*	*	*	.2	.0	*	.3	
	NO PCP	22.6	1.4	.2	.8	1.3	2.1	10.4	39.4	.0	.7	79.0	
	TOT %	22.6	1.4	.2	.8	1.4	2.1	10.5	39.6	.0	.7	79.3	
	TOT OBS												4896
	TOT PCT	27.7	1.8	.4	1.1	1.7	2.8	13.3	50.3	.0	.8	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.1	*	*	.1	.0	*	.1	*	.0		.4	
	11-21	.0	.0	.0	.0	.0	.0	*	*	.0		.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.1	*	*	.1	.0	*	.1	.1	.0	.0	.4	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	*	.0	.0	*	
	4-10	.0	.0	.0	.0	.0	*	.1	*	.0		.1	
	11-21	*	.0	.0	.0	.0	.0	*	.1	.0		.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	*	.0	.0	.0	.0	*	.1	.1	.0	.0	.3	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	*	.0	.0	*	
	4-10	.0	.0	.0	.0	.0	*	.2	.2	.0		.4	
	11-21	*	.0	.0	.0	.0	.0	*	.1	.0		.1	
	22+	*	.0	.0	.0	.0	.0	.0	.1	.0		.1	
	TOT %	*	.0	.0	.0	.0	*	.2	.4	.0	.0	.6	
2<5	0-3	.0	.0	.0	.0	.0	.0	*	*	.0	.0	.1	
	4-10	.2	.0	.0	*	*	*	.2	.2	.0		.6	
	11-21	.2	.0	.0	.0	*	*	.1	.4	.0		.7	
	22+	.1	.0	.0	.0	.0	.0	.0	.3	.0		.3	
	TOT %	.4	.0	.0	*	*	*	.3	1.0	.0	.0	1.8	
5<10	0-3	.1	*	*	*	.1	.1	.1	.1	.0	.1	.6	
	4-10	.8	.2	.1	.2	.2	.3	1.1	1.9	.0		4.6	
	11-21	2.6	.1	*	.1	.1	.2	.9	5.4	.0		9.4	
	22+	1.1	*	.0	.0	.0	*	.2	2.2	.0		3.6	
	TOT %	4.6	.4	.1	.3	.3	.6	2.3	9.5	.0	.1	18.2	
10+	0-3	.4	.1	.1	.1	.2	.2	.5	.5	.0	.7	2.8	
	4-10	3.8	.7	.1	.5	.9	1.2	4.2	7.8	.0		19.2	
	11-21	13.2	.5	*	.2	.3	.6	4.6	22.3	.0		41.6	
	22+	5.1	.2	*	.0	.0	*	1.1	8.7	.0		15.1	
	TOT %	22.4	1.4	.2	.8	1.4	2.1	10.4	39.4	.0	.7	78.7	
	TOT OBS												4998
	TOT PCT	27.6	1.8	.4	1.1	1.7	2.8	13.4	50.5	.0	.8	100.0	

MAY

PERIOD: (PRIMARY) 1945-1973
(OVER-ALL) 1873-1973

AREA 0033 SANTA ROSA IS. SW
32.0N 122.2W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00&03	.2	.4	1.7	6.0	20.2	21.0	5.7	.3	.7	.1	56.2	43.8	902
06&09	.9	.2	1.8	4.7	19.0	21.3	2.2	.0	.4	.6	51.2	48.8	811
12&15	1.2	.1	1.4	6.1	23.2	23.8	3.7	.4	.2	.0	60.2	39.8	856
18&21	.8	.2	.7	7.3	23.7	21.2	6.0	.1	.4	.2	60.8	39.2	953
TOT	27	9	49	214	761	768	198	7	15	8	2016	1506	3522
PCT	.8	.3	1.4	6.1	21.6	21.8	4.5	.2	.4	.2	57.2	42.8	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00&03	.1	.2	.8	2.1	18.6	78.2	1282
06&09	.8	.3	.2	1.8	20.1	76.9	1060
12&15	.4	.5	.8	1.7	20.8	75.8	1295
18&21	.6	.1	.7	1.5	14.0	83.2	1376
TOT	22	13	32	89	913	3944	5013
PCT	.4	.3	.6	1.8	18.2	78.7	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET, NH >4/8), BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	.2	2.2	9.0	48.1	42.9	890
06&09	.9	3.1	8.3	43.5	48.1	804
12&15	1.1	2.6	9.2	52.1	38.7	838
18&21	.9	1.9	9.7	52.7	37.6	930
TOT	26	85	314	1705	1443	3462
PCT	.8	2.5	9.1	49.2	41.7	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
75/79	.0	.0	.1	*	*	*	.0	.0	5	.1
70/74	.0	.0	.0	.1	.2	.1	.1	*	19	.5
65/69	.0	*	*	.3	.9	1.5	.5	.2	131	3.4
60/64	.0	.0	.1	.5	3.9	10.2	8.7	2.6	997	26.0
55/59	.0	.0	.1	.2	4.0	17.7	29.8	10.0	2375	61.8
50/54	.0	.0	.0	.1	.4	1.3	3.8	2.7	315	8.2
TOTAL	0	1	7	41	366	1182	1650	595	3842	100.0
PCT	.0	*	.2	1.1	9.5	30.8	42.9	15.5		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
*	.0	.0	*	.0	*	*	*	.0	.0
*	*	*	*	*	.1	.1	.1	.0	*
.7	.1	.0	.1	.1	.2	.7	1.3	.0	.2
6.9	.4	.1	.5	.9	1.3	3.7	11.8	.0	.3
16.4	1.1	.2	.5	.6	1.1	7.7	33.9	.0	.2
1.4	.2	.0	.1	.1	.2	1.5	4.7	.0	.1
25.5	1.8	.3	1.2	1.8	3.0	13.7	51.9	.0	.8

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00&03	76	69	65	59	55	53	46	59.5	1283
06&09	70	64	61	57	53	52	50	57.3	1068
12&15	69	64	62	57	53	52	50	57.2	1308
18&21	78	70	65	59	55	53	50	59.4	1405
TOT	78	68	64	58	54	52	46	58.4	5064

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00&03	.0	1.8	11.9	34.8	39.4	12.1	80	1000
06&09	.0	.7	7.1	23.9	49.6	18.7	83	815
12&15	.0	.8	5.5	24.4	48.2	21.1	84	973
18&21	.0	1.6	12.8	38.3	36.2	11.2	79	1066
TOT	0	49	367	1188	1653	597	81	3854

PERIOD: (PRIMARY) 1945-1973
(OVER-ALL) 1873-1973

AREA 0033 SANTA ROSA IS. SW
32.6N 122.2W

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	45 48	49 52	53 56	57 60	61 64	65 68	69 72	73 76	77 80	TOT	W FOG	WO FOG
17/19	.0	.0	.0	.0	.0	.0	*	*	.0	3	.0	.1
14/16	.0	.0	.0	.0	.0	*	.0	*	*	4	*	.1
11/13	.0	.0	.0	.0	*	.1	.1	.0	.0	15	*	.3
9/10	.0	.0	.0	*	.2	.2	.2	.0	.0	34	.0	.7
7/8	.0	.0	.0	.2	.7	.8	.1	*	.0	89	*	1.9
6	.0	.0	*	.5	.7	.4	*	.0	.0	79	*	1.7
5	.0	.0	.1	.8	1.0	.8	*	.0	.0	130	*	2.7
4	.0	.0	.2	1.4	1.6	.2	*	.0	.0	163	.1	3.4
3	.0	.0	.1	2.4	1.7	.5	*	*	.0	226	.1	4.7
2	.0	*	1.4	4.5	2.6	.2	*	.0	.0	411	.2	8.6
1	.0	.0	1.8	5.3	2.7	.1	.0	.0	.0	461	.2	9.6
0	.0	.1	4.2	7.9	2.6	*	.0	.0	.0	699	.4	14.5
-1	.0	.1	3.5	7.6	1.9	.1	.0	.0	.0	621	.2	13.0
-2	.0	.2	4.7	8.0	.9	*	.0	.0	.0	651	.3	13.6
-3	.0	.2	3.4	4.6	.6	*	.0	.0	.0	413	.1	8.7
-4	*	.1	3.1	3.6	.1	*	.0	.0	.0	330	.1	6.9
-5	.0	.2	2.0	1.7	.1	.0	.0	.0	.0	183	*	3.9
-6	.0	.1	.9	.8	.0	.0	.0	.0	.0	86	*	1.8
-7/-8	.0	.1	.8	.5	.0	.0	.0	.0	.0	68	.1	1.4
-9/-10	.0	.1	.3	.1	.0	.0	.0	.0	.0	21	.0	.4
-11/-13	.0	.0	.1	.1	*	.0	.0	.0	.0	12	*	.2
TOTAL	1	61	1254	2349	829	167	32	5	2	4700	92	4608
PCT	*	1.3	26.7	50.0	17.6	3.6	.7	.1	*	100.0	2.0	98.0

PERIOD: (OVER-ALL) 1963-1973

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.7	.0	.0	.0	.0	.8
1-2	.2	2.8	3.2	.0	.0	.0	6.2
3-4	.0	1.4	5.3	1.0	.0	.0	7.6
5-6	.0	.6	4.0	1.2	.0	.0	5.8
7	.0	.0	2.4	1.2	.1	.0	3.6
8-9	.0	.0	.9	.6	.1	.0	1.5
10-11	.0	.0	.7	.3	.0	.0	1.0
12	.0	.0	.0	.2	.3	.0	.5
13-16	.0	.0	.0	.2	.1	.0	.4
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	5.4	16.5	4.7	.6	.0	27.5

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	*	.2	.0	.0	.0	.0	.2
1-2	.0	.5	.2	.0	.0	.0	.7
3-4	.0	.2	.2	.0	.0	.0	.4
5-6	.0	.1	.2	.0	.0	.0	.3
7	.0	.0	.0	.1	.0	.0	.1
8-9	.0	.0	.1	.0	.0	.0	.1
10-11	.0	.1	.0	.0	.0	.0	.1
12	.0	.1	.1	.0	.0	.0	.2
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	*	1.2	.8	.1	.0	.0	2.1

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.0	.0	.0	.0	.0	.1
1-2	.0	.1	.0	.0	.0	.0	.1
3-4	.0	.1	.0	.0	.0	.0	.1
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.1	.2	.0	.0	.0	.0	.3

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.3	.0	.0	.0	.0	.3
1-2	.0	.5	.0	.0	.0	.0	.5
3-4	.0	.1	.0	.0	.0	.0	.1
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.1	.0	.0	.0	.1
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.8	.1	.0	.0	.0	.9

PERIOD: (OVER-ALL) 1963-1973

TABLE 18 (CONT)

AREA 0033 SANTA ROSA IS. SW
32.6N 122.2W

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

S

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	.4	.0	.0	.0	.0	.6
1-2	.2	.1	.0	.0	.0	.0	.3
3-4	.0	.2	.1	.0	.0	.0	.2
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.4	.6	.1	.0	.0	.0	1.1

SW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	*	.2	.0	.0	.0	.0	.2
1-2	*	.8	.2	.0	.0	.0	1.0
3-4	.0	.3	*	.0	.0	.0	.3
5-6	.0	*	.1	.1	.0	.0	.2
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.1	1.3	.3	.1	.0	.0	1.7

W

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	1.0	.0	.0	.0	.0	1.1
1-2	.2	2.0	.9	.0	.0	.0	3.1
3-4	.0	1.4	1.4	.2	.0	.0	2.9
5-6	.1	.4	.8	.1	.0	.0	1.4
7	.0	.1	.4	.4	.0	.0	.9
8-9	.0	.1	.1	.2	.0	.0	.4
10-11	.0	.0	.1	.1	.0	.0	.2
12	.0	.0	.0	.1	.1	.0	.1
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.4	4.9	3.7	1.0	.1	.0	10.1

NW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.4	1.3	.1	.0	.0	.0	1.7	
1-2	.5	4.4	4.9	.0	.0	.0	9.7	
3-4	.2	3.8	12.3	2.4	.0	.0	18.6	
5-6	.0	1.0	9.3	2.4	.0	.0	12.7	
7	.0	.4	3.2	2.3	.2	.0	6.1	
8-9	.0	.2	1.5	1.2	.1	.0	3.0	
10-11	.0	.0	.7	.7	.1	.0	1.4	
12	.0	.0	.4	.5	.2	.0	1.0	
13-16	.0	.0	.1	.1	.4	.0	.6	
17-19	.0	.0	.0	.1	.1	.0	.2	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	1.0	10.9	32.4	9.8	1.1	.0	55.2	98.8

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	2.2	3.9	.1	.0	.0	.0	6.2	
1-2	1.1	11.1	9.4	.0	.0	.0	21.6	
3-4	.2	7.3	19.2	3.6	.0	.0	30.2	
5-6	.1	2.0	14.4	3.9	.0	.0	20.4	
7	.0	.4	6.1	4.0	.3	.0	10.8	
8-9	.0	.3	2.7	2.0	.2	.0	5.1	
10-11	.0	.1	1.4	1.1	.1	.0	2.7	
12	.0	.1	.4	.7	.5	.0	1.8	
13-16	.0	.0	.1	.4	.5	.0	1.0	
17-19	.0	.0	.0	.1	.1	.0	.2	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	3.6	25.2	53.9	15.6	1.7	.0	100.0	1125

PERIOD: (OVER-ALL) 1949-1973

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	.7	8.1	15.1	6.2	3.5	1.4	.5	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1047	4
6-7	.1	.9	6.2	7.0	6.4	3.9	2.4	.9	.5	.1	*	.0	.0	.0	.0	.0	.0	.0	.0	832	6
8-9	*	.5	4.3	4.5	4.3	2.2	2.0	1.0	.5	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	582	7
10-11	.0	.5	1.4	.9	2.0	.7	1.0	.8	.7	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	243	8
12-13	.0	.0	.4	.3	.4	.3	.4	.3	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	68	8
>13	.0	.0	.0	.2	.1	.2	.7	.4	.1	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	48	10
INDET	1.4	.8	.7	.2	.1	.2	.2	.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	114	3
TOTAL	67	316	826	564	493	260	211	103	62	22	10	0	0	0	0	0	0	0	0	2934	6
PCT	2.3	10.8	28.2	19.2	16.8	8.9	7.2	3.5	2.1	.7	.3	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

JUNE

PERIOD: (PRIMARY) 1945-1973
(OVER-ALL) 1875-1973

AREA 0033 SANTA ROSA IS, SW
32.0N 122.1W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG	DUST BLWG SNOW	NO SIG WEA
N	.2	.2	1.5	.0	.0	.0	.0	1.9	.4	.1	3.6	.1	3.8	.2		89.9
NE	.0	.0	3.0	.0	.0	.0	.0	3.0	.0	.0	11.5	.0	10.3	.0		75.2
E	.0	.0	.0	.0	.0	.0	.0	.0	4.8	.0	20.2	.0	7.1	.0		67.9
SE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	25.2	.0	1.0	.0		73.8
S	.0	.0	2.7	.0	.0	.0	.0	2.7	5.4	.0	6.1	.0	7.4	.0		78.4
SW	.0	.0	2.2	.0	.0	.0	.0	2.2	.3	.0	10.2	.0	4.8	.0		82.3
W	.3	.2	2.4	.0	.0	.0	.0	2.8	.7	.0	6.4	.4	7.6	.1		82.0
NW	.4	.1	1.8	.0	.0	.0	.0	2.1	.7	.1	4.1	.2	4.0	.1		88.7
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	21.3	2.1	4.3	.0		72.3
TOT PCT	.3	.2	1.8	.0	.0	.0	.0	2.1	.7	.1	4.9	.2	4.6	.1		87.4
TOT OBS:	4345															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG	DUST BLWG SNOW	NO SIG WEA
00&03	.1	.2	1.4	.0	.0	.0	.0	1.6	.3	.0	4.1	.1	5.1	.1		88.6
06&09	.0	.0	2.0	.0	.0	.0	.0	2.0	.5	.0	3.7	.3	2.6	.1		90.8
12&15	.9	.3	3.4	.0	.0	.0	.0	4.1	.8	.1	4.7	.0	4.5	.3		55.6
18&21	.2	.1	.9	.0	.0	.0	.0	1.2	1.0	.2	6.5	.4	5.4	.1		85.3
TOT PCT	.3	.2	1.9	.0	.0	.0	.0	2.2	.7	.1	4.9	.2	.5	.1		87.3
TOT OBS:	4366															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	.3	5.7	19.7	6.3	.3	.0		28.3	16.7	29.4	27.0	28.7	28.0	26.6	29.0	31.7	22.8
NE	.1	.7	.5	.1	.0	.0		1.4	10.9	1.4	.7	2.0	.2	1.3	1.7	1.1	1.7
E	.1	.1	.2	*	.0	.0		.5	8.4	.1	.1	.2	.5	.8	.8	.6	.8
SE	.1	.3	.1	*	.0	.0		.6	7.6	.6	.4	.3	.2	.8	.3	1.0	.4
S	.2	.6	.1	.0	.0	.0		.8	5.8	1.0	1.1	.3	.9	1.2	.7	1.0	.4
SW	.2	1.2	.4	*	.0	.0		1.8	7.8	2.2	1.5	2.1	1.8	1.4	1.6	1.6	2.0
W	.9	6.2	5.3	.7	*	.0		13.1	10.9	13.0	18.3	12.6	9.4	12.7	15.3	10.5	15.1
NW	.5	11.6	29.2	10.5	.6	.0		52.4	16.1	50.8	50.1	53.2	58.9	54.5	49.7	50.9	54.9
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.1							1.1	.0	1.6	.8	.6	.0	.8	1.0	1.6	1.8
TOT OBS	168	1194	2932	801	40	0	4535		15.0	825	367	678	218	728	415	851	493
TOT PCT	3.7	26.3	51.4	17.7	.9	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	03 09	12 15	18 21
N	1.7	12.7	12.3	1.6	.0		28.3	16.7	28.6	28.5	27.4	28.6
NE	.3	.8	.2	*	.0		1.4	10.9	1.2	1.6	1.3	1.3
E	.2	.2	*	.0	.0		.5	8.4	.1	.3	.8	.7
SE	.3	.2	*	.0	.0		.6	7.6	.5	.3	.6	.8
S	.7	.2	*	.0	.0		.8	5.8	1.0	.5	1.0	.8
SW	.8	.9	.1	.0	.0		1.8	7.8	2.0	2.0	1.4	1.7
W	3.3	7.7	1.9	.1	.0		13.1	10.9	14.6	11.8	13.7	12.1
NW	3.6	25.5	20.8	2.5	*		52.4	16.1	50.5	54.6	52.7	52.3
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	1.1						1.1	.0	1.3	.4	.9	1.7
TOT OBS	550	2187	1607	189	2	4535		15.0	1192	896	1143	1304
TOT PCT	12.1	48.2	35.4	4.2	*		100.0		100.0	100.0	100.0	100.0

JUNE

PERIOD: (PRIMARY) 1965-1973
(OVER-ALL) 1875-1973

AREA 0033 SANTA ROSA IS, SW
32.0N 122.1W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS) 11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	1.3	2.6	24.5	52.3	18.5	.8	.0	15.1	100.0	1192
06&09	.4	1.2	24.3	53.8	19.0	1.2	.0	15.8	100.0	896
12&15	.9	2.2	28.0	50.7	17.3	.9	.0	14.9	100.0	1143
18&21	1.7	3.8	27.9	49.5	16.3	.8	.0	14.4	100.0	1304
TOT	92	116	1194	2332	801	40	0	15.0		4535
PCT	1.1	2.6	26.3	51.4	17.7	.9	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	6.7	2.5	8.0	14.5		5.6
NE	.1	.1	.3	.9		6.6
E	*	.0	.1	.3		7.2
SE	.1	*	.2	.4		6.3
S	*	.1	.3	.4		6.4
SW	.4	.2	.3	.8		5.5
W	2.1	.5	1.9	6.3		6.1
NW	12.0	3.4	11.0	25.0		5.6
VAR	.0	.0	.0	.0		.0
CALM	.1	.0	.2	.8		7.2
TOT OBS	657	207	680	1509	3053	5.7
TOT PCT	21.5	6.8	22.3	49.4	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.3	.2	.8	3.3	8.3	7.0	1.5	.1	.1	.0	10.1	
NE	*	.0	.1	.2	.4	.4	*	*	.0	.0	.3	
E	*	.0	.0	.1	.3	*	.0	*	.0	.0	*	
SE	*	.0	.0	.1	.2	.1	.0	*	*	.0	.2	
S	.0	.0	.1	.2	.2	.1	*	.0	*	*	.3	
SW	.0	.0	*	.2	.4	.3	*	.0	*	.0	.6	
W	.3	*	.4	1.1	2.8	2.1	.9	*	*	.0	3.1	
NW	.7	.3	1.8	6.4	15.5	7.5	2.0	.5	.1	*	16.6	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	*	.0	.1	.3	.2	.1	.1	.0	*	.0	.2	
TOT OBS	41	15	97	369	860	540	140	23	10	2	960	3053
TOT PCT	1.3	.5	3.2	12.0	28.2	17.7	4.6	.8	.3	.1	31.4	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM) * OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >50YD	* OR >0
* OR >6500	.2	.4	.4	.4	.4	.4	.4	.4
* OR >5000	.8	1.1	1.1	1.1	1.1	1.1	1.1	1.1
* OR >3500	4.4	5.6	5.7	5.7	5.7	5.7	5.7	5.7
* OR >2000	18.6	23.0	23.4	23.4	23.4	23.4	23.4	23.4
* OR >1000	38.1	50.3	51.5	51.5	51.6	51.6	51.6	51.6
* OR >600	45.8	61.9	63.4	63.5	63.5	63.5	63.5	63.5
* OR >300	47.1	64.4	66.4	66.5	66.7	66.7	66.7	66.7
* OR >150	47.3	64.8	66.9	67.0	67.2	67.2	67.2	67.2
* OR > 0	47.5	65.3	67.6	67.9	68.2	68.3	68.4	68.5
TOTAL	1454	1998	2070	2078	2087	2091	2094	2097

TOTAL NUMBER OF OBS: 3062 PCT FREQ NH <5/8: 31.5

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
19.3	5.1	5.4	4.1	3.5	3.9	7.7	10.4	45.5	1.1	3168

PERIOD: (PRIMARY) 1945-1973
(OVER-ALL) 1875-1973

AREA 0033 SANTA ROSA IS. SW
32.0N 122.1W

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	*	*	.0	.0	.0	.0	.0	.0	.0	.0	*	
	NO PCP	*	.0	*	*	*	.1	.1	.2	.0	*	.4	
	TOT %	*	*	*	*	*	.1	.1	.2	.0	*	.4	
1/2<1	PCP	*	.0	.0	.0	.0	.0	.0	*	.0	.0	*	
	NO PCP	.3	*	.0	.0	.0	*	*	.4	.0	.0	.8	
	TOT %	.3	*	.0	.0	.0	*	*	.4	.0	.0	.8	
1<2	PCP	.1	.0	.0	.0	.0	.0	.1	.1	.0	.0	.2	
	NO PCP	*	.1	.0	*	*	*	.1	.3	.0	.0	.6	
	TOT %	.1	.1	.0	*	*	*	.2	.4	.0	.0	.7	
2<5	PCP	.1	*	.0	.0	.0	*	.1	.1	.0	.0	.4	
	NO PCP	.7	.1	.1	.1	*	.1	1.0	2.2	.0	.3	4.6	
	TOT %	.9	.1	.1	.1	*	.1	1.1	2.3	.0	.3	5.0	
5<10	PCP	.3	.0	.0	.0	*	*	.2	.8	.0	.0	1.3	
	NO PCP	6.9	.4	.2	.1	.2	.6	3.8	14.3	.0	.3	26.8	
	TOT %	7.2	.4	.2	.1	.3	.6	4.0	15.0	.0	.3	28.0	
10+	PCP	*	*	.0	.0	.0	.0	*	.1	.0	.0	.2	
	NO PCP	19.8	.7	.2	.4	.5	1.0	7.7	34.0	.0	.6	64.8	
	TOT %	19.9	.7	.2	.4	.5	1.0	7.7	34.1	.0	.6	65.0	
	TOT OBS												4339
	TOT PCT	28.4	1.3	.5	.6	.9	1.8	13.1	52.4	.0	1.1	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	*	.0	*	.0	*	.1	
	4-10	*	*	*	*	*	*	.1	.1	.0		.3	
	11-21	*	.0	.0	.0	.0	*	.1	.1	.0		.2	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	*	*	*	*	*	.1	.1	.2	.0	*	.6	
1/2<1	0-3	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	*	
	4-10	.1	*	.0	.0	.0	.0	.1	.2	.0		.3	
	11-21	.2	.0	.0	.0	.0	*	*	.3	.0		.5	
	22+	*	.0	.0	.0	.0	.0	.0	*	.0		.1	
	TOT %	.3	*	.0	.0	.0	*	.1	.5	.0	.0	.9	
1<2	0-3	*	*	.0	.0	*	*	*	*	.0	.0	.1	
	4-10	*	*	.0	.0	.0	*	.2	.3	.0		.6	
	11-21	.1	.0	.0	*	*	.0	.1	.3	.0		.5	
	22+	*	*	.0	.0	.0	.0	.0	.1	.0		.1	
	TOT %	.2	.1	.0	*	*	*	.3	.7	.0	.0	1.3	
2<5	0-3	.1	*	.1	*	*	*	.2	.1	.0	.3	.7	
	4-10	.3	.1	*	*	*	.1	.7	.9	.0		2.2	
	11-21	.4	*	.0	.0	.0	*	.3	1.2	.0		1.9	
	22+	.2	.0	.0	.0	.0	.0	*	.3	.0		.4	
	TOT %	.9	.2	.1	.1	*	.1	1.1	2.4	.0	.3	5.3	
5<10	0-3	.1	*	.1	*	*	.1	.3	.1	.0	.2	1.1	
	4-10	1.7	.1	.1	.1	.2	.4	1.6	3.2	.0		7.3	
	11-21	3.6	.2	.1	.0	.0	.1	1.8	8.2	.0		13.9	
	22+	1.8	*	*	.0	.0	.0	.2	3.2	.0		5.3	
	TOT %	7.2	.4	.2	.1	.2	.6	3.9	14.7	.0	.2	27.5	
10+	0-3	.1	*	*	.1	.1	.1	.4	.3	.0	.6	1.7	
	4-10	3.6	.4	.1	.2	.3	.7	3.6	6.9	.0		15.7	
	11-21	11.3	.3	.1	.1	.1	.2	3.0	18.9	.0		34.1	
	22+	4.8	.0	.0	*	.0	*	.5	7.6	.0		12.9	
	TOT %	19.8	.7	.2	.4	.5	1.0	7.6	33.7	.0	.6	64.4	
	TOT OBS												4453
	TOT PCT	28.4	1.4	.5	.6	.9	1.8	13.1	52.2	.0	1.1	100.0	

JUNE

PERIOD: (PRIMARY) 1945-1973
(OVER-ALL) 1875-1973

AREA 0033 SANTA ROSA IS, SW
32.0N 122.1W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET,NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00&03	.9	.9	3.1	11.5	25.6	17.5	5.5	.7	.2	.1	66.0	34.0	806
06&09	1.3	.3	3.6	9.6	26.0	17.1	2.4	.1	.4	.0	61.0	39.0	695
12&15	1.9	.5	2.4	11.3	30.6	17.1	3.9	.8	.4	.1	69.2	30.8	736
18&21	1.4	.2	3.6	14.2	29.5	18.0	5.8	1.2	.2	.0	74.0	26.0	862
TOT	42	15	99	365	866	541	140	23	10	2	2103	996	3099
PCT	1.4	.5	3.2	11.8	27.9	17.5	4.5	.7	.3	.1	67.9	32.1	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00&03	.3	1.1	1.3	5.8	26.7	64.7	1186
06&09	.4	.8	.4	3.3	25.7	69.3	890
12&15	.8	1.1	2.3	5.9	28.9	61.0	1128
18&21	.7	.7	.9	5.9	28.2	63.5	1271
TOT	26	41	58	240	1231	2879	4475
PCT	.6	.9	1.3	5.4	27.5	64.3	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET,NH >4/8),BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	.6	4.8	18.5	48.5	33.0	794
06&09	1.3	5.4	18.7	45.9	37.4	688
12&15	1.9	5.2	19.0	51.6	29.4	732
18&21	1.3	5.2	20.8	54.5	24.8	848
TOT	39	157	577	1541	944	3062
PCT	1.3	5.1	18.8	50.3	30.8	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
75/79	.0	.0	.0	.0	.0	.0	.0	*	1	*
70/74	.0	.0	.0	.1	.2	.2	.3	.0	27	.8
65/69	.0	.0	.0	.2	1.1	2.9	2.7	.6	267	7.5
60/64	.0	.0	.1	.3	2.9	15.0	21.3	8.3	1708	47.8
55/59	.0	.0	.0	.1	.6	7.6	22.2	12.2	1524	42.7
50/54	.0	.0	.0	.0	*	.1	.3	.8	43	1.2
TOTAL	0	0	2	25	171	918	1674	780	3570	100.0
PCT	.0	.0	.1	.7	4.8	25.7	46.9	21.8		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.0	*	.0	.0	.0	.0	.0	.0
.2	.1	.0	*	*	*	.1	.2	.0	*
2.2	.2	*	.1	.1	.4	1.1	3.2	.0	.2
14.1	.5	.3	.4	.6	.8	6.9	23.5	.0	.7
9.8	.6	.1	.1	.3	.6	5.5	25.4	.0	.3
.1	*	*	.0	*	.0	.2	.8	.0	*
26.4	1.3	.5	.7	.9	1.8	13.9	53.2	.0	1.2

TABLE 15

MEANS,EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00&03	75	71	67	61	57	55	48	61.4	1195
06&09	68	65	63	59	55	54	46	59.2	898
12&15	70	66	63	59	55	53	50	58.7	1146
18&21	74	70	67	61	56	54	52	61.0	1302
TOT	75	69	66	60	56	54	46	60.2	4541

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00&03	.0	.7	7.4	31.9	44.4	15.6	82	947
06&09	.0	.1	1.7	20.0	51.1	27.1	86	701
12&15	.0	.8	2.0	17.8	48.2	31.2	86	906
18&21	.0	1.2	7.0	30.9	49.1	11.9	82	1033
TOT	0	27	172	922	1681	785	84	3587

PERIOD: (PRIMARY) 1965-1973
(OVER-ALL) 1875-1973

AREA 0033 SANTA ROSA IS. SW
32.6N 122.1W

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	43 48	49 52	53 56	57 60	61 64	65 68	69 72	73 76	TOT	W FOG	WO FOG
11/13	.0	.0	.0	.0	*	.1	.1	.1	10	*	.3
9/10	.0	.0	.0	.2	.2	.3	.1	.0	30	.0	.9
7/8	.0	.0	.0	.4	.4	.9	.2	.0	77	.1	1.9
6	.0	.0	.0	.5	.7	.5	.2	.0	73	.1	1.7
5	.0	.0	.1	.6	.8	1.0	.2	*	107	.2	2.5
4	.0	.0	.1	1.0	2.5	.6	.1	*	167	.2	4.0
3	.0	.0	.1	1.3	2.6	.7	.2	*	199	.2	4.8
2	.0	.0	.5	2.6	4.3	.9	.2	.0	338	.4	8.1
1	.0	.0	.5	3.6	4.5	.8	.2	.0	376	.4	9.1
0	.0	*	1.1	8.8	4.2	.5	*	.0	579	.6	14.0
-1	.0	.0	1.4	6.7	3.8	.4	.0	.0	488	.6	11.5
-2	.0	.0	1.4	7.4	3.0	.3	.1	.0	484	.7	11.5
-3	.0	*	.9	5.5	2.2	.4	.0	.0	395	.5	9.5
-4	.0	*	1.1	4.9	1.3	.1	*	.0	295	.6	6.8
-5	.0	.1	.7	2.3	.7	.1	.0	.0	154	.1	3.8
-6	.0	.1	.6	1.3	.6	.1	.0	.0	102	.1	2.5
-7/-8	*	.1	.5	1.0	.8	.0	.0	.0	98	*	2.4
-9/-10	*	*	.1	.4	.2	.0	.0	.0	30	*	.7
-11/-13	.0	.0	*	.2	*	.0	.0	.0	10	.0	.3
-14/-16	.0	.0	*	.0	.0	.0	.0	.0	1	.0	*
TOTAL	2		365		1296		60			190	3778
		13		1927		300		5	3968		
PCT	.1	.3	9.2	48.6	32.7	7.6	1.5	.1	100.0	4.8	95.2

PERIOD: (OVER-ALL) 1963-1973

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.4	.0	.0	.0	.0	.4
1-2	.2	2.8	1.0	.0	.0	.0	3.9
3-4	.1	1.8	6.0	.6	.0	.0	8.6
5-6	.0	.6	4.6	1.4	.1	.0	6.7
7	.0	.2	1.7	1.5	.3	.0	3.7
8-9	.0	.0	1.0	1.1	.0	.0	2.2
10-11	.0	.0	.2	.3	.0	.0	.5
12	.0	.0	.0	.7	.0	.0	.7
13-16	.0	.0	.1	.1	.1	.0	.2
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	5.8	14.5	5.8	.4	.0	26.8

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.1	.4	.0	.0	.0	.0	.5
3-4	.0	.4	.1	.0	.0	.0	.6
5-6	.0	.2	*	.0	.0	.0	.2
7	.0	.0	.1	.1	.0	.0	.2
8-9	.0	.0	.1	*	.0	.0	.1
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.1	1.0	.3	.1	.0	.0	1.5

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.1	.0	.0	.0	.0	.1
1-2	.0	.1	.1	.0	.0	.0	.2
3-4	.0	.0	.3	.0	.0	.0	.3
5-6	.0	.0	.1	.0	.0	.0	.1
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.1	.0	.0	.1
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.2	.4	.1	.0	.0	.7

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.1	.0	.0	.0	.0	.2
1-2	.1	.3	.0	.0	.0	.0	.4
3-4	.0	.0	*	.0	.0	.0	*
5-6	.0	.0	*	.0	.0	.0	*
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	.4	*	.0	.0	.0	.6

PERIOD: (OVER-ALL) 1963-1979

JUNE

TABLE 18 (CONT)

AREA 0033 SANTA ROSA IS. SW
32.0N 122.1W

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

	S							SW						
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.2	.0	.0	.0	.0	.2	.1	.5	.0	.0	.0	.0	.5
1-2	.1	.5	.0	.0	.0	.0	.6	.1	.5	.2	.0	.0	.0	.9
3-4	.0	.0	.1	.0	.0	.0	.1	.0	*	.1	.0	.0	.0	.2
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.1
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	.7	.1	.0	.0	.0	.9	.2	1.0	.4	.0	.0	.0	1.7

	W							NW							TOTAL
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	PCT
<1	.8	1.3	.1	.0	.0	.0	2.2	.2	1.1	.1	.0	.0	.0	1.4	
1-2	.5	2.3	1.1	.0	.0	.0	3.9	.3	5.8	4.9	.0	.0	.0	11.1	
3-4	.0	.9	1.1	.1	.0	.0	2.2	.2	3.9	11.0	1.3	.0	.0	16.3	
5-6	.1	.0	.6	.2	.0	.0	.9	.0	1.3	8.2	3.3	*	.0	12.9	
7	.0	.0	.2	.2	.0	.0	.3	.0	.5	4.5	2.4	.4	.0	7.8	
8-9	.0	.0	.1	.2	.0	.0	.4	.0	.0	1.5	2.4	.2	.0	4.1	
10-11	.0	.0	.0	.1	.0	.0	.1	.0	.0	.7	.6	.3	.0	1.5	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.6	.0	.0	.9	
13-15	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.3	.1	.0	.6	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	1.4	4.5	3.2	.8	.0	.0	9.9	.7	12.6	31.4	10.9	1.0	.0	56.6	98.7

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	2.6	3.7	.2	.0	.0	.0	6.4	
1-2	1.4	12.6	7.3	.0	.0	.0	21.3	
3-4	.3	7.1	18.7	2.0	.0	.0	28.0	
5-6	.1	2.1	13.6	4.9	.1	.0	20.9	
7	.0	.7	6.5	4.1	.6	.0	12.0	
8-9	.0	.0	2.7	3.8	.2	.0	6.8	
10-11	.0	.0	.8	1.0	.3	.0	2.1	
12	.0	.0	.3	1.4	.0	.0	1.6	
13-16	.0	.0	.3	.4	.2	.0	.8	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
								1092
TOT PCT	4.3	26.2	50.5	17.7	1.4	.0	100.0	

PERIOD: (OVER-ALL) 1949-1979

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	1.0	9.2	14.0	6.2	4.0	1.7	.9	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1000	4
6-7	.1	.7	7.4	7.7	5.5	3.6	1.4	.8	.6	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	749	6
8-9	.1	.4	7.4	4.2	4.6	2.9	1.8	1.2	.8	.1	*	.0	.0	.0	.0	.0	.0	.0	.0	629	6
10-11	.0	.3	.9	1.0	1.3	1.1	.7	.5	.9	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	184	8
12-13	.0	.0	.1	.1	.2	.8	.3	.1	.3	*	*	.0	.0	.0	.0	.0	.0	.0	.0	39	9
>13	.0	.0	.0	*	.1	.1	*	.1	*	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	14	10
INDET	.5	.3	.4	.3	.1	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	47	3
TOTAL	45	295	809	525	423	276	137	78	77	12	3	0	0	0	0	0	0	0	0	2680	5
PCT	1.7	11.0	30.2	19.6	15.8	10.3	5.1	2.9	2.9	.4	.1	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

JULY

PERIOD: (PRIMARY) 1948-1973
(OVER-ALL) 1880-1973

AREA 0033 SANTA ROSA IS. SW
32.4N 122.3W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	.3	.3	1.9	.0	.0	.0	.0	2.5	.6	.0	3.4	.1	2.1	*		91.3
NE	.0	.0	.8	.0	.0	.0	.0	.8	.0	.0	4.4	.0	5.7	.0		89.1
E	.0	.0	3.6	.0	.0	.0	.0	3.6	.0	.0	7.1	.0	4.1	.0		85.2
SE	6.3	.0	6.3	.0	.0	.0	.0	6.3	.0	.0	9.5	.0	.0	.0		84.1
S	.0	.0	2.8	.0	.0	.0	.0	2.8	.0	.0	4.2	.0	13.2	.0		79.9
SW	.0	.0	1.6	.0	.0	.0	.0	1.6	1.6	.8	5.1	.4	17.6	.0		72.9
W	.7	.0	1.9	.0	.0	.0	.0	2.1	.0	.1	7.4	.5	7.6	.0		82.2
NW	.3	.1	1.5	.0	.0	.0	.0	1.9	.6	*	4.1	.1	4.9	.1		88.7
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	1.9	.0	7.5	.0	9.7	.0		84.9
TOT PCT	.4	.2	1.7	.0	.0	.0	.0	2.1	.5	*	4.3	.2	4.3	.1		88.5
TOT OBS: 4583																

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00&03	.3	.2	.8	.0	.0	.0	.0	1.2	.3	.1	4.0	.0	5.5	.2		88.9
06&09	.3	.4	1.9	.0	.0	.0	.0	2.5	.8	.1	4.1	.0	3.6	.0		89.0
12&15	.7	.1	2.7	.0	.0	.0	.0	3.3	.9	.0	3.2	.4	4.4	.1		85.8
18&21	.2	.1	1.4	.0	.0	.0	.0	1.6	.3	.0	4.0	.2	3.7	.0		90.3
TOT PCT	.4	.2	1.7	.0	.0	.0	.0	2.1	.5	*	4.3	.2	4.3	.1		88.5
TOT OBS: 4603																

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)						
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	.4	8.5	18.2	5.3	.1	.0		32.5	15.2	37.6	23.6	34.5	30.4	30.0	26.1	35.8	31.1
NE	.2	1.0	.9	.1	.0	.0		2.1	10.7	2.1	2.1	2.0	1.8	2.1	1.3	2.7	2.0
E	.2	.6	.1	*	.0	.0		.9	6.8	.5	.1	1.2	.5	1.2	1.3	1.0	1.1
SE	.2	.4	.1	.0	.0	.0		.7	5.7	.5	.5	.5	.0	.9	.5	.8	1.4
S	.2	.5	.1	.0	.0	.0		.8	5.7	.6	.4	.4	.0	1.0	1.3	1.3	1.2
SW	.1	1.1	.2	*	.0	.0		1.4	6.9	2.0	1.5	.7	.9	1.5	1.3	1.5	1.2
W	.6	5.2	3.8	.4	.0	.0		10.1	10.5	7.6	13.8	10.5	10.6	11.4	13.1	7.9	9.4
NW	.9	14.1	28.1	7.4	.1	.0		50.5	14.7	48.2	57.0	49.0	55.2	49.8	54.8	47.8	51.7
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.2							1.2	.0	.9	.8	1.2	.7	2.1	.3	1.3	1.0
TOT OBS	189	1498	2454	632	8	0	4781		13.9	863	366	776	285	824	394	856	417
TOT PCT	4.0	31.3	51.3	13.2	.2	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)				
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21	
N	3.0	16.0	12.6	.9	.0		32.5	15.2	33.4	33.4	28.8	34.2	
NE	.6	1.2	.3	*	.0		2.1	10.7	2.1	1.9	1.8	2.5	
E	.5	.4	*	.0	.0		.9	6.8	.4	1.0	1.2	1.0	
SE	.4	.3	.0	.0	.0		.7	5.7	.5	.3	.8	1.0	
S	.5	.3	*	.0	.0		.8	5.7	.5	.3	1.1	1.2	
SW	.7	.6	*	*	.0		1.4	6.9	1.9	.8	1.7	1.4	
W	2.9	5.8	1.3	.1	.0		10.1	10.5	9.4	10.5	12.0	8.4	
NW	4.8	26.7	17.8	1.2	.0		50.5	14.7	50.8	50.7	51.4	49.1	
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	
CALM	1.2						1.2	.0	.9	1.0	1.5	1.2	
TOT OBS	694	2451	1532	104	0	4781		13.9	1229	1061	1218	1273	
TOT PCT	14.5	51.3	32.0	2.2	.0		100.0		100.0	100.0	100.0	100.0	

JULY

PERIOD: (PRIMARY) 1948-1973
(OVER-ALL) 1880-1973

AREA 0033 SANTA ROSA IS. SH
32.0N 122.3W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	.9	2.1	28.4	54.8	13.6	.2	.0	14.4	100.0	1229
06&09	1.0	1.4	28.8	53.8	14.7	.2	.0	14.4	100.0	1061
12&15	1.5	3.5	34.3	47.0	13.5	.1	.0	13.5	100.0	1218
18&21	1.2	3.0	33.4	50.0	11.3	.2	.0	13.3	100.0	1273
TOT	95	194	1498	2454	632	8	0	13.9		4781
PCT	1.2	2.8	31.3	51.3	13.2	.2	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	5.3	1.7	6.9	21.4		6.3
NE	.2	.1	.4	1.4		6.9
E	.1	•	.3	.6		6.5
SE	.2	.0	.1	.3		5.4
S	.1	•	.1	.4		6.5
SW	.1	•	.1	.8		6.7
W	1.0	.4	1.2	5.6		6.6
NW	8.4	2.1	8.3	31.0		6.3
VAR	.0	.0	.0	.0		.0
CALM	.2	.1	.1	.8		6.0
TOT OBS	352	158	616	2179	3305	6.3
TOT PCT	15.7	4.5	17.6	62.2	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NM >4/8) AND OCCURRENCE OF NM <5/8 BY WIND DIRECTION

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NM <5/8 ANY HGT	TOTAL OBS
N	.6	.2	.9	4.3	13.6	6.9	.9	.2	•	•	7.7	
NE	.0	.0	.2	.2	.8	.6	•	.0	.0	.0	.9	
E	.0	.0	•	.1	.5	.3	.0	.0	.0	.0	.2	
SE	.0	.0	.1	•	.2	.1	.0	.0	.0	.0	.2	
S	.0	.0	•	•	.5	.1	.0	.0	.0	.0	.1	
SW	.0	.0	•	.2	.5	.2	.0	.0	.0	.0	.2	
W	.2	.1	.4	1.9	2.3	1.3	.3	•	•	.1	1.7	
NW	1.0	.3	2.1	6.6	17.3	9.5	1.2	.1	.2	.1	11.5	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.1	.0	•	.2	.2	.3	.0	.0	.0	.0	.4	
TOT OBS	64	20	129	476	1246	673	84	11	11	5	786	3305
TOT PCT	1.8	.6	3.7	13.6	35.5	19.2	2.4	.3	.3	.1	22.4	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NM >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM) • OR >10	• OR >5	• OR >2	• OR >1	• OR >1/2	• OR >1/4	• OR >50YD	• OR >0
• OR >8500	.3	.5	.5	.5	.5	.5	.5	.5
• OR >9000	.5	.8	.8	.8	.8	.8	.8	.8
• OR >3500	2.4	3.2	3.2	3.2	3.2	3.2	3.2	3.2
• OR >2000	18.2	22.0	22.3	22.4	22.4	22.4	22.4	22.4
• OR >1000	43.6	57.0	57.8	58.0	58.0	58.0	58.0	58.0
• OR >600	50.5	69.8	71.2	71.4	71.5	71.5	71.5	71.5
• OR >300	51.6	72.7	74.7	75.0	75.0	75.1	75.2	75.2
• OR >150	51.7	73.1	75.1	75.4	75.5	75.6	75.7	75.8
• OR > 0	92.0	73.7	75.9	76.4	76.7	77.0	77.4	77.5
TOTAL	1828	2592	2808	2804	2896	2705	2720	2725

TOTAL NUMBER OF OBS: 3515 PCT FREQ NM <5/8: 22.5

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
9.9	2.8	4.6	3.0	1.9	2.6	6.6	9.7	58.1	1.2	3681

PERIOD: (PRIMARY) 1948-1973
(OVER-ALL) 1880-1973

AREA 0033 SANTA ROSA IS. SW
32.0N 122.3W

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.1	
	NO PCP	.1	.0	.0	.0	.0	.0	.2	.4	.0	.0	.7	
	TOT %	.1	.0	.0	.0	.0	.0	.2	.5	.0	.0	.8	
1/2<1	PCP	.0	.0	*	.0	.0	.0	*	*	.0	.0	.1	
	NO PCP	*	.0	.0	.0	.0	.0	.1	.2	.0	*	.3	
	TOT %	*	.0	*	.0	.0	.0	.1	.2	.0	*	.4	
1<2	PCP	*	.0	.0	.0	.0	.0	*	.1	.0	.0	.1	
	NO PCP	.1	*	.0	.0	.0	.0	.1	.3	.0	*	.5	
	TOT %	.1	*	.0	.0	.0	.0	.1	.3	.0	*	.6	
2<5	PCP	.1	.0	.0	*	*	.0	*	.2	.0	.0	.4	
	NO PCP	.6	.2	*	*	.1	*	.5	1.6	.0	.1	3.2	
	TOT %	.7	.2	*	.1	.1	*	.6	1.8	.0	.1	3.6	
5<10	PCP	.5	*	*	.0	.0	.0	.1	.4	.0	.0	1.1	
	NO PCP	7.3	.6	.2	.2	.4	.7	4.1	14.3	.0	.2	28.0	
	TOT %	7.8	.6	.2	.2	.4	.7	4.2	14.7	.0	.2	29.1	
10+	PCP	.2	*	.0	.0	.0	*	.0	.1	.0	.0	.4	
	NO PCP	23.8	1.3	.6	.4	.3	.6	4.9	32.4	.0	.9	65.2	
	TOT %	24.1	1.3	.6	.4	.3	.6	4.9	32.6	.0	.9	65.6	
	TOT OBS												4582
	TOT PCT	32.8	2.1	.9	.7	.8	1.4	10.0	50.1	.0	1.2	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	*	.0	.0	.0	*	
	4-10	*	.0	.0	.0	.0	.0	.1	.2	.0		.4	
	11-21	.1	.0	.0	.0	.0	.0	.1	.2	.0		.4	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.1	.0	.0	.0	.0	.0	.2	.5	.0	.0	.8	
1/2<1	0-3	*	.0	.0	.0	.0	.0	*	*	.0	*	.1	
	4-10	*	.0	*	.0	*	*	*	.2	.0		.3	
	11-21	*	.0	.0	.0	.0	.0	.1	.1	.0		.2	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.1	.0	*	.0	*	*	.1	.3	.0	*	.6	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	*	.0	*	.1	
	4-10	.1	.1	.0	.0	*	.0	.1	.2	.0		.5	
	11-21	*	.0	.0	.0	.0	.0	*	.3	.0		.3	
	22+	*	.0	.0	.0	.0	.0	*	*	.0		.1	
	TOT %	.1	.1	.0	.0	*	.0	.1	.6	.0	*	.9	
2<5	0-3	*	.0	*	*	.1	*	*	.1	.0	.1	.4	
	4-10	.2	.1	.0	*	*	*	.4	.6	.0		1.4	
	11-21	.5	*	.0	.0	*	.0	.1	1.2	.0		1.9	
	22+	*	.0	.0	.0	.0	*	*	.1	.0		.2	
	TOT %	.7	.2	*	.1	.1	*	.6	2.0	.0	.1	3.8	
5<10	0-3	.1	*	*	.1	*	*	.3	.3	.0	.1	1.0	
	4-10	2.2	.2	.1	.1	.3	.6	2.4	3.7	.0		9.7	
	11-21	4.1	.3	*	.1	*	.1	1.4	8.3	.0		14.3	
	22+	1.4	*	*	.0	.0	.0	.1	2.2	.0		3.7	
	TOT %	7.7	.6	.2	.2	.4	.7	4.2	14.5	.0	.1	28.7	
10+	0-3	.3	.1	.2	.1	.1	.1	.2	.4	.0	.9	2.3	
	4-10	6.0	.6	.4	.2	.2	.4	2.1	9.0	.0		18.9	
	11-21	13.6	.5	.1	*	.0	.1	2.1	17.9	.0		34.4	
	22+	4.0	.1	.0	.0	.0	*	.3	5.1	.0		9.5	
	TOT %	23.8	1.3	.6	.4	.3	.6	4.8	32.4	.0	.9	65.1	
	TOT OBS												4696
	TOT PCT	32.6	2.1	.9	.7	.8	1.4	10.1	50.4	.0	1.1	100.0	

JULY

PERIOD: (PRIMARY) 1948-1973
(OVER-ALL) 1880-1973

AREA 0033 SANTA ROSA IS. SW
32.0N 122.3W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET,NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00&03	1.4	.2	4.0	13.5	36.0	20.4	2.6	.2	.3	.2	78.9	21.1	909
06&09	2.7	.4	3.2	12.6	33.2	18.0	2.2	.1	.4	.1	72.8	27.2	850
12&15	2.4	.8	3.6	14.7	36.0	17.6	1.7	.3	.2	.1	77.5	22.5	864
18&21	.8	.9	3.8	13.2	36.4	20.4	3.0	.5	.3	.1	79.5	20.5	910
TOT	64	20	129	477	1251	676	85	11	11	5	2729	804	3533
PCT	1.8	.6	3.7	13.5	35.4	19.1	2.4	.3	.3	.1	77.2	22.8	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00&03	.3	.7	.8	3.6	29.2	65.4	1213
06&09	.9	.5	.6	4.3	28.7	65.0	1060
12&15	1.7	.8	1.2	4.9	29.7	61.7	1204
18&21	.5	.5	1.0	2.4	27.7	67.9	1239
TOT	40	29	44	179	1358	3066	4716
PCT	.8	.6	.9	3.8	28.8	65.0	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET,NH >4/8),BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	1.4	5.6	20.3	59.2	20.4	905
06&09	2.7	6.5	21.3	52.8	25.9	845
12&15	2.4	6.9	22.7	55.0	22.3	858
18&21	.8	5.5	19.2	60.4	20.4	907
TOT	64	215	733	2002	780	3515
PCT	1.8	6.1	20.9	57.0	22.2	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
75/79	.0	.0	.0	*	.1	.0	.0	*	5	.1
70/74	.0	.0	.0	*	.4	.7	.1	.1	49	1.3
65/69	.0	.0	.0	.1	.8	5.3	5.7	1.5	499	13.4
60/64	.0	.0	.0	.1	1.0	11.2	37.1	13.3	2328	62.7
55/59	.0	.0	.0	*	.2	1.2	9.1	11.6	821	22.1
50/54	.0	.0	.0	.0	.0	*	.1	.1	9	.2
TOTAL	0	0	0	11	91	682	1935	992	3711	100.0
PCT	.0	.0	.0	.3	2.5	18.4	52.1	26.7		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
	*	.0	*	.0	.0	.0	.0	*	.0	*
	.6	*	*	.0	.0	*	.1	.5	.0	*
	4.5	.6	.2	.2	.2	.2	1.1	6.2	.0	.2
	21.1	1.2	.4	.4	.4	1.0	8.3	31.1	.0	.9
	5.2	.1	.1	.1	.4	.4	2.5	13.2	.0	.1
	.1	.0	.0	.0	.0	.0	*	.1	.0	.0
	31.5	2.0	.8	.7	.9	1.5	10.1	51.2	.0	1.2

TABLE 15

MEANS,EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00&03	77	72	69	63	58	57	54	62.9	1222
06&09	72	66	64	61	57	55	50	60.7	1065
12&15	75	66	64	60	56	54	48	60.3	1220
18&21	77	71	68	63	58	56	48	62.8	1268
TOT	77	70	67	62	57	55	48	61.7	4775

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00&03	.0	.3	3.8	23.9	52.6	19.6	84	990
06&09	.0	.4	1.1	11.8	54.5	32.2	87	829
12&15	.0	.2	1.4	11.0	52.3	35.1	88	943
18&21	.0	.3	3.5	25.5	49.4	21.3	84	966
TOT	0	11	91	685	1943	998	85	3728

PERIOD: (PRIMARY) 1948-1973
(OVER-ALL) 1880-1973

AREA 0033 SANTA ROSA IS, SW
32.6N 122.3W

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	45 48	49 52	53 56	57 60	61 64	65 68	69 72	73 76	77 80	TOT	W FOG	WO FOG
14/16	.0	.0	.0	.0	.0	.0	*	.0	*	2	*	*
11/13	.0	.0	.0	.0	.0	*	.1	.2	.0	11	.0	.3
9/10	.0	.0	.0	*	*	.1	.2	.1	*	22	.0	.5
7/8	.0	.0	.0	*	.4	.4	.8	.0	.0	72	.1	1.6
6	.0	.0	.0	.1	.3	.8	.3	.0	.0	61	*	1.3
5	.0	.0	.0	.2	.7	1.2	.3	.0	.0	104	.1	2.3
4	.0	.0	*	.4	1.7	1.6	.2	.0	.0	170	.1	3.7
3	.0	.0	*	.5	2.8	2.1	.2	.0	.0	244	.1	5.5
2	.0	.0	*	1.4	4.6	1.3	.1	.0	.0	326	.2	7.2
1	.0	.0	.1	1.9	6.2	1.5	.2	.0	.0	432	.5	9.4
0	.0	.0	.2	5.1	8.1	1.1	.1	.0	.0	638	.7	13.9
-1	.0	.0	.2	4.9	7.2	1.2	.0	*	.0	596	.5	13.1
-2	.0	*	.4	6.0	6.3	.4	.0	.0	.0	571	.6	12.5
-3	.0	.0	.3	4.6	4.0	.4	.0	.0	.0	409	.6	8.7
-4	*	*	.5	3.1	3.1	.1	.0	.0	.0	307	.4	6.6
-5	.0	.0	.2	1.9	1.8	*	*	.0	.0	175	.2	3.8
-6	.0	.0	.1	.9	1.4	.0	.0	.0	.0	107	.1	2.4
-7/-8	.0	.0	.2	.9	.8	*	.0	.0	.0	80	*	1.8
-9/-10	.0	*	.1	.5	.2	*	.0	.0	.0	36	.1	.7
-11/-13	.0	.0	*	.2	*	.0	.0	.0	.0	9	.0	.2
-14/-16	.0	.0	*	*	.0	.0	.0	.0	.0	2	.0	*
TOTAL	2	3	111	1424	2170	547	103	12	2	4374	193	4181
PCT	*	.1	2.5	32.6	49.6	12.5	2.4	.3	*	100.0	4.4	95.6

PERIOD: (OVER-ALL) 1963-1973

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.6	.0	.0	.0	.0	.6
1-2	.0	3.0	2.9	.0	.0	.0	5.9
3-4	.1	1.6	7.9	.9	.0	.0	10.5
5-6	.0	1.2	5.0	1.4	.0	.0	7.7
7	.0	.1	3.8	2.0	.0	.0	5.8
8-9	.0	.2	1.1	.7	.0	.0	1.9
10-11	.0	.0	.6	.4	.0	.0	1.0
12	.0	.0	.0	.1	.0	.0	.1
13-16	.0	.0	.0	.1	.0	.0	.1
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.1	6.6	21.2	5.6	.0	.0	33.5

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.3	.3	.0	.0	.0	.6
3-4	.0	.2	.5	.0	.0	.0	.7
5-6	.0	*	.1	.0	.0	.0	.1
7	.0	.0	*	.0	.0	.0	*
8-9	.0	.0	.1	*	.0	.0	.1
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.5	1.1	*	.0	.0	1.6

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	.0	.0	.0	.0	.0	.2
1-2	.0	.2	.0	.0	.0	.0	.2
3-4	.0	.1	.1	.0	.0	.0	.1
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.1	.0	.0	.1
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	.3	.1	.1	.0	.0	.6

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	.0	.0	.0	.0	.0	.2
1-2	.0	.0	.1	.0	.0	.0	.1
3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	.0	.1	.0	.0	.0	.2

PERIOD: (OVER-ALL) 1963-1973

JULY

TABLE 18 (CONT)

AREA 0033 SANTA ROSA IS. SW
32.0N 122.3W

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

S

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.2	.0	.0	.0	.0	.2
1-2	.0	.1	.0	.0	.0	.0	.1
3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.2	.0	.0	.0	.0	.2

SW

1-3	4-10	11-21	22-33	34-47	48+	PCT
.0	.2	*	.0	.0	.0	.2
.0	.5	.1	.0	.0	.0	.6
.0	.0	.2	.0	.0	.0	.2
.0	*	.0	.0	.0	.0	*
.0	.0	.1	.0	.0	.0	.1
.0	.0	.0	*	.0	.0	*
.0	.0	.0	.0	.0	.0	.0
.0	.0	.0	.0	.0	.0	.0
.0	.0	.0	.0	.0	.0	.0
.0	.0	.0	.0	.0	.0	.0
.0	.0	.0	.0	.0	.0	.0
.0	.0	.0	.0	.0	.0	.0
.0	.0	.0	.0	.0	.0	.0
.0	.0	.0	.0	.0	.0	.0
.0	.0	.0	.0	.0	.0	.0
.0	.0	.0	.0	.0	.0	.0
.0	.0	.0	.0	.0	.0	.0
.0	.0	.0	.0	.0	.0	.0
.0	.7	.4	*	.0	.0	1.1

W

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	.4	.1	.0	.0	.0	.7
1-2	.1	2.0	1.7	.0	.0	.0	3.7
3-4	.0	.8	.7	.2	.0	.0	1.7
5-6	.0	.3	.4	.1	.0	.0	.8
7	.0	.0	.2	.1	.0	.0	.3
8-9	.0	.0	.0	.1	.0	.0	.1
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	3.4	2.9	.6	.0	.0	7.[illegible]

NW

1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
.4	1.1	.1	.0	.0	.0	1.5	
.2	6.0	7.5	.0	.0	.0	13.7	
.2	4.1	12.1	1.3	.0	.0	17.7	
.1	1.3	7.8	1.4	.0	.0	10.6	
.0	.1	4.6	2.0	.0	.0	6.7	
.0	.0	1.8	1.3	.1	.0	3.1	
.0	.0	.1	.6	.1	.0	.8	
.0	.0	.0	.3	.0	.0	.3	
.0	.0	.0	.1	.0	.0	.1	
.0	.0	.0	.0	.0	.0	.0	
.0	.0	.0	.0	.0	.0	.0	
.0	.0	.0	.0	.0	.0	.0	
.0	.0	.0	.0	.0	.0	.0	
.0	.0	.0	.0	.0	.0	.0	
.0	.0	.0	.0	.0	.0	.0	
.0	.0	.0	.0	.0	.0	.0	
.0	.0	.0	.0	.0	.0	.0	
.0	.0	.0	.0	.0	.0	.0	
.8	12.6	34.0	6.9	.2	.0	54.5	99.0

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	2.0	2.4	.2	.0	.0	.0	4.5	
1-2	.2	12.0	12.6	.0	.0	.0	24.8	
3-4	.2	6.8	21.4	2.5	.0	.0	30.9	
5-6	.1	2.9	13.3	2.9	.0	.0	19.2	
7	.0	.2	8.7	4.1	.0	.0	12.9	
8-9	.0	.2	2.9	2.1	.1	.0	5.3	
10-11	.0	.0	.7	1.0	.1	.0	1.8	
12	.0	.0	.0	.4	.0	.0	.4	
13-16	.0	.0	.0	.2	.0	.0	.2	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	2.5	24.3	59.7	13.2	.2	.0	100.0	1257

PERIOD: (OVER-ALL) 1949-1973

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	.7	9.9	15.0	7.5	4.8	1.6	.7	.1	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1231	4
6-7	*	1.7	9.2	8.0	6.8	4.2	1.6	.8	.6	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	1005	6
8-9	.0	.6	2.6	3.0	3.6	2.3	1.4	.7	.4	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	447	7
10-11	.0	.2	.6	.5	1.6	1.7	.6	.3	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	176	7
12-13	.0	.0	.8	.1	.3	1.2	.5	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	95	7
>13	.0	.0	.0	.1	.1	.1	.1	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	16	10
INDET	1.0	.7	.5	.2	.1	.1	.0	.0	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	77	2
TOTAL	50	396	872	593	525	342	148	64	51	4	0	0	0	0	0	0	0	0	0	3045	5
PCT	1.6	13.0	28.6	19.5	17.2	11.2	4.9	2.1	1.7	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

AUGUST

PERIOD: (PRIMARY) 1945-1973
(OVER-ALL) 1869-1973

AREA 0033 SANTA ROSA IS. SW
32.0N 122.2W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA				
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	.1	.1	.8	.0	.0	.0	.0	1.1	.8	.1	2.9	.1	2.3		.0	92.7
NE	.2	.0	.9	.0	.0	.0	.0	1.1	.2	.0	1.6	1.1	3.2		.0	92.8
E	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	9.5	0	7.1		.0	83.3
SE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7.0	.0		.0	93.0
S	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.8	.0	5.5		.0	92.7
SW	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.0	1.0	1.0	2.0		.0	93.9
W	.1	.0	1.7	.0	.0	.0	.0	1.8	.2	.0	8.3	.3	4.5		.0	84.9
NW	.2	.1	.9	.0	.0	.0	.0	1.2	.5	*	4.4	.1	2.9		*	90.9
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	8.1	.0	8.1		.0	83.8
TOT PCT	.2	.1	.9	.0	.0	.0	.0	1.2	.5	.1	4.2	.2	2.9		*	90.8
TOT OBS:	4554															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA				
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00&03	.0	.2	.3	.0	.0	.0	.0	.5	.3	.0	3.2	.1	3.9		.0	92.0
06&09	.2	.3	.7	.0	.0	.0	.0	1.2	.7	.1	5.8	.2	2.0		.0	90.0
12&15	.2	.0	1.9	.0	.0	.0	.0	2.2	.3	.1	5.1	.3	2.1		.0	89.9
18&21	.2	.0	.7	.0	.0	.0	.0	.9	.7	.1	3.5	.2	3.5		.1	91.0
TOT PCT	.2	.1	.9	.0	.0	.0	.0	1.2	.5	.1	4.3	.2	2.9		*	90.8
TOT OBS:	4576															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	.4	8.6	20.4	4.0	.0	.0		33.3	14.7	37.2	27.9	33.1	30.1	33.9	28.6	35.1	33.3
NE	.2	.8	1.3	.1	.0	.0		2.5	12.3	1.5	2.0	3.1	2.2	2.7	2.7	2.6	2.8
E	*	.2	.1	.0	.0	.0		.2	8.6	.0	.0	.3	.2	.5	.3	.4	.0
SE	*	.2	.1	.0	.0	.0		.3	8.8	.2	.0	.6	.0	.7	.3	.3	.3
S	.1	.5	.1	.0	.0	.0		.6	7.2	.2	.2	.4	.2	.6	.5	1.0	1.8
SW	.2	.7	.2	*	.0	.0		1.1	8.1	1.3	1.1	.5	.5	1.6	1.5	.5	2.4
W	.7	5.0	5.0	.5	.0	.0		11.2	11.2	11.5	11.9	10.8	11.8	12.9	10.7	9.8	10.3
NW	.7	11.4	31.3	6.6	.0	.0		50.0	15.0	47.3	56.8	50.2	53.9	46.1	55.2	49.4	48.5
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.8							.8	.0	.8	.0	1.1	1.1	1.2	.2	1.0	.7
TOT OBS	145	1283	2738	526	0	0	4692		14.1	835	376	697	282	769	462	816	455
TOT PCT	3.1	27.3	58.4	11.2	.0	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	2.2	18.7	11.9	.5	.0		33.3	14.7	34.3	32.3	31.9	34.4
NE	.4	1.6	.5	.0	.0		2.5	12.3	1.7	2.8	2.7	2.7
E	.1	.2	.0	.0	.0		.2	8.6	.0	.2	.4	.3
SE	.2	.1	*	.0	.0		.3	8.8	.2	.4	.5	.3
S	.3	.3	*	.0	.0		.6	7.2	.2	.3	.5	1.3
SW	.5	.5	.1	.0	.0		1.1	8.1	1.2	.5	1.5	1.1
W	2.2	7.0	1.9	.1	.0		11.2	11.2	11.6	11.1	12.0	10.0
NW	4.0	25.5	19.6	.8	.0		50.0	15.0	50.3	51.3	49.5	49.1
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	.8						.8	.0	.6	1.1	.8	.9
TOT OBS	507	2524	1599	62	0	4692		14.1	1211	979	1231	1271
TOT PCT	10.8	53.8	34.1	1.3	.0		100.0		100.0	100.0	100.0	100.0

AUGUST

PERIOD: (PRIMARY) 1945-1973
(OVER-ALL) 1869-1973

TABLE 4

AREA 0033 SANTA ROSA IS. SW
32.0N 122.2W

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	.6	2.1	25.0	59.7	12.6	.0	.0	14.5	100.0	1211
06&09	1.1	1.1	25.7	59.1	12.9	.0	.0	14.8	100.0	979
12&15	.8	2.4	29.6	57.7	9.7	.0	.0	13.7	100.0	1231
18&21	.9	3.1	28.8	57.1	10.1	.0	.0	13.7	100.0	1271
TOT	39	106	1283	2738	526	0	0	14.1		4692
PCT	.8	2.3	27.3	58.4	11.2	.0	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	7.1	2.4	8.5	20.9		6.0
NE	.2	.1	.4	1.7		6.8
E	*	*	.1	.1		6.1
SE	.2	*	*	.1		3.6
S	.1	*	.1	.2		5.3
SW	.2	.1	.2	.4		5.4
W	2.1	.4	1.4	5.2		5.8
NW	9.8	2.7	8.4	25.7		5.9
VAR	.0	.0	.0	.0		.0
CALM	.1	*	.1	.7		7.1
TOT OBS	650	185	613	1752	3180	5.9
TOT PCT	19.8	5.8	19.3	55.1	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.3	.3	1.0	5.1	10.4	10.2	.9	.1	*	.1	10.4	
NE	.0	.0	.2	.3	.6	.9	*	.0	*	*	.4	
E	.0	.0	*	*	*	*	.0	.0	.0	.0	.2	
SE	.0	.0	.0	.1	*	*	*	.0	.0	.0	.2	
S	.0	.0	*	.0	.1	.1	.0	.0	.0	*	.2	
SW	.0	.0	*	*	.3	.2	*	.0	.0	*	.3	
W	.3	.0	.5	1.5	2.4	1.7	.1	*	.0	*	2.6	
NW	.4	.1	2.3	6.6	11.9	10.3	.7	.2	.2	.1	13.7	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.1	.3	.3	.1	*	*	.0	.0	.1	
TOT OBS	31	13	130	446	827	750	59	10	8	11	895	3180
TOT PCT	1.0	.4	4.1	14.0	26.0	23.6	1.9	.3	.3	.3	28.1	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM) * OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >50YD	* OR >0
* OR >6500	.5	.6	.6	.6	.6	.6	.6	.6
* OR >5000	.8	.9	.9	.9	.9	.9	.9	.9
* OR >3500	2.4	2.7	2.8	2.8	2.8	2.8	2.8	2.8
* OR >2000	22.9	26.1	26.3	26.3	26.3	26.3	26.3	26.3
* OR >1000	40.3	51.8	52.1	52.3	52.3	52.3	52.3	52.3
* OR >600	47.6	64.7	66.1	66.3	66.3	66.3	66.3	66.3
* OR >300	49.2	68.6	70.1	70.4	70.4	70.4	70.4	70.4
* OR >150	49.3	68.9	70.5	70.8	70.8	70.8	70.8	70.8
* OR > 0	49.6	69.4	71.0	71.3	71.4	71.6	71.7	71.8
TOTAL	1577	2215	2267	2278	2281	2286	2290	2294

TOTAL NUMBER OF OBS: 3193 PCT FREQ NH <5/8: 28.2

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
11.6	4.5	5.6	3.0	2.7	3.2	6.9	9.6	52.2 .6	3392

PERIOD: (PRIMARY) 1945-1973
(OVER-ALL) 1869-1973

AREA 0033 SANTA ROSA IS. SW
32.6N 122.2W

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	PCP	.0	.0	.0	.0	.0	.0	*	.0	.0	.0	*	
<1/2	NO PCP	.1	.0	*	.0	*	*	.1	.2	.0	.0	.5	
	TOT %	.1	.0	*	.0	*	*	.2	.2	.0	.0	.6	
	PCP	*	.0	.0	.0	.0	.0	*	.1	.0	.0	.1	
1/2<1	NO PCP	.3	.0	.0	.0	.0	.0	.1	.2	.0	.0	.6	
	TOT %	.3	.0	.0	.0	.0	.0	.1	.3	.0	.0	.7	
	PCP	.1	.0	.0	.0	.0	.0	*	*	.0	.0	.1	
1<2	NO PCP	.1	*	.0	.0	.0	.0	.1	.4	.0	*	.5	
	TOT %	.1	*	.0	.0	.0	.0	.1	.4	.0	*	.6	
	PCP	*	.0	.0	.0	.0	.0	.1	.1	.0	.0	.2	
2<5	NO PCP	.8	.2	.0	*	*	.0	.5	1.3	.0	*	2.8	
	TOT %	.8	.2	.0	*	*	.0	.5	1.4	.0	*	3.0	
	PCP	.2	*	.0	.0	.0	.0	.1	.4	.0	.0	.7	
5<10	NO PCP	8.1	.6	*	.1	.2	.4	3.0	15.1	.0	.3	28.0	
	TOT %	8.3	.7	*	.1	.2	.4	3.1	15.5	.0	.3	28.7	
	PCP	*	*	.0	.0	.0	.0	*	.1	.0	.0	.1	
10>	NO PCP	23.6	1.6	.2	.2	.3	.7	7.2	32.1	.0	.4	66.4	
	TOT %	23.6	1.6	.2	.2	.3	.7	7.2	32.2	.0	.4	66.5	
	TOT OBS												4550
	TOT PCT	33.3	2.4	.2	.3	.6	1.1	11.2	50.1	.0	.8	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	0-3	.0	.0	.0	.0	.0	.0	*	*	.0	.0	*	
<1/2	4-10	.1	.0	.0	.0	*	*	.0	.1	.0		.2	
	11-21	.1	.0	*	.0	.0	.0	.1	.2	.0		.4	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.1	.0	*	.0	*	*	.2	.2	.0	.0	.6	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	4-10	.1	.0	.0	.0	.0	.0	.1	.2	.0		.3	
	11-21	.2	.0	.0	.0	.0	.0	*	.1	.0		.3	
	22+	*	.0	.0	.0	.0	.0	.0	.1	.0		.1	
	TOT %	.3	.0	.0	.0	.0	.0	.1	.3	.0	.0	.7	
	0-3	.0	.0	.0	.0	.0	.0	.0	*	.0	*	*	
1<2	4-10	*	.0	.0	.0	.0	.0	*	.1	.0		.2	
	11-21	.1	*	.0	.0	.0	.0	*	.4	.0		.5	
	22+	*	.0	.0	.0	.0	.0	.0	.1	.0		.2	
	TOT %	.2	*	.0	.0	.0	.0	.1	.6	.0	*	.9	
	0-3	.0	*	.0	.0	.0	.0	*	.0	.0	.1	.1	
2<5	4-10	.3	*	.0	.0	.0	.0	.2	.4	.0		.9	
	11-21	.5	.1	.0	*	*	.0	.3	1.0	.0		2.0	
	22+	*	*	.0	.0	.0	.0	.0	.3	.0		.3	
	TOT %	.9	.2	.0	*	*	.0	.6	1.7	.0	.1	3.3	
	0-3	*	.1	.0	.0	*	.1	.2	.1	.0	.3	.8	
5<10	4-10	1.9	.3	.0	*	.2	.3	1.3	3.2	.0		7.2	
	11-21	4.9	.2	*	*	.0	*	1.4	10.0	.0		16.7	
	22+	1.4	*	.0	.0	.0	.0	.2	2.1	.0		3.7	
	TOT %	8.2	.6	*	.1	.2	.4	3.1	15.4	.0	.3	28.4	
	0-3	.3	*	*	*	*	.1	.4	.6	.0	.4	1.9	
10+	4-10	6.2	.5	.1	.1	.2	.4	3.4	7.5	.0		18.5	
	11-21	14.6	1.0	*	.1	.1	.1	3.1	19.8	.0		38.7	
	22+	2.5	.1	.0	.0	.0	*	.3	4.1	.0		7.1	
	TOT %	23.6	1.6	.2	.2	.3	.6	7.1	32.0	.0	.4	66.1	
	TOT OBS												4617
	TOT PCT	33.3	2.4	.2	.3	.6	1.1	11.1	50.2	.0	.8	100.0	

AUGUST

PERIOD: (PRIMARY) 1945-1973
(OVER-ALL) 1869-1973

AREA 0033 SANTA ROSA IS. SW
32.6N 122.2W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND OCCURRENCE OF NH <3/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00&03	.4	.2	4.0	14.4	25.5	23.1	2.6	.6	.0	.2	71.0	29.0	832
06&09	1.2	.4	4.4	13.0	24.4	20.2	.9	.1	.0	.5	65.1	34.9	769
12&15	1.0	.6	3.1	14.3	26.2	24.2	.8	.0	.4	.5	71.1	28.9	782
18&21	1.4	.4	4.7	13.7	26.8	25.7	2.8	.5	.6	.1	76.7	23.3	846
TOT	32	13	131	448	832	753	59	10	8	11	2297	932	3229
PCT	1.0	.4	4.1	13.9	25.8	23.3	1.8	.3	.2	.3	71.1	28.9	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00&03	.5	.8	.7	2.8	27.2	68.0	1208
06&09	1.0	.6	.9	2.3	30.6	64.5	979
12&15	.4	1.1	1.5	4.4	30.4	62.2	1217
18&21	.4	.3	.5	3.6	25.8	69.4	1235
TOT	26	33	42	155	1317	3066	4639
PCT	.6	.7	.9	3.3	28.4	66.1	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET, NH >4/8), BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	.4	4.7	20.1	52.2	27.7	822
06&09	1.2	6.1	19.7	46.1	34.1	765
12&15	1.0	4.9	20.8	51.2	28.0	771
18&21	1.4	6.7	20.8	57.0	22.2	835
TOT	32	180	650	1653	890	3193
PCT	1.0	5.6	20.4	51.8	27.9	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
80/84	.0	.0	*	.0	.0	.0	.0	.0	1	*
75/79	.0	.0	.0	.1	.1	.1	*	*	15	.4
70/74	.0	.0	*	.0	1.2	.9	.3	.1	91	2.5
65/69	.0	.0	.0	*	1.2	7.5	9.9	4.1	812	22.7
60/64	.0	.0	.0	.1	.8	9.6	37.3	16.5	2295	64.2
55/59	.0	.0	.0	.0	*	.2	3.9	5.9	359	10.0
50/54	.0	.0	.0	.0	.0	.0	*	*	2	.1
TOTAL	0	0	2	6	119	654	1840	954	3575	100.0
PCT	.0	.0	.1	.2	3.3	18.3	51.5	26.7		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
	.0	.0	.0	.0	.0	.0	.0	*	.0	.0
	.2	*	*	.0	.0	.0	.1	.1	.0	.0
	1.3	.1	.0	*	*	.1	.2	.7	.0	*
	8.7	.8	.1	.1	.4	.5	2.4	9.5	.0	.2
	18.9	1.4	.1	.2	.2	.5	7.9	34.4	.0	.6
	1.9	.2	.0	*	.1	*	1.4	6.4	.0	.1
	*	.0	.0	.0	.0	.0	.0	*	.0	*
	31.0	2.5	.2	.4	.7	1.2	12.0	51.1	.0	.9

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	90%	5%	1%	MIN	MEAN	TOTAL OBS
00&03	79	73	70	64	60	58	54	64.1	1213
06&09	79	68	66	62	58	56	54	62.1	985
12&15	82	68	66	62	58	56	50	61.8	1236
18&21	79	72	70	64	59	57	52	63.9	1273
TOT	82	72	68	63	58	57	50	63.0	4707

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00&03	.0	.2	5.0	21.4	51.8	21.7	84	941
06&09	.0	.1	.8	13.7	52.2	33.2	87	753
12&15	.0	.1	1.3	13.7	50.8	34.0	87	931
18&21	.0	.4	5.6	23.1	51.3	19.5	83	972
TOT	0	8	119	657	1852	961	85	3597

PERIOD: (PRIMARY) 1945-1973
(OVER-ALL) 1869-1973

AREA 0033 SANTA ROSA IS, SW
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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	49 52	53 56	57 60	61 64	65 68	69 72	73 76	77 80	81 84	TOT	W FOG	WO FOG
17/19	.0	.0	.0	.0	.0	.0	.0	*	.0	1	.0	*
14/16	.0	.0	.0	.0	*	*	*	*	.0	4	*	.1
11/13	.0	.0	.0	*	*	.1	*	.1	.0	14	.0	.3
9/10	.0	.0	*	*	.2	.6	.1	*	.0	44	.0	1.0
7/8	.0	.0	.0	.3	.8	.5	.2	.0	.0	77	*	1.8
6	.0	.0	.0	.6	.9	.4	.1	.0	.0	81	.0	1.9
5	.0	.0	*	.8	1.5	.7	.1	.0	*	129	*	3.1
4	.0	.0	.1	1.3	1.4	.4	*	.0	.0	133	*	3.1
3	.0	.0	.2	1.5	2.4	.5	*	.0	.0	195	*	4.6
2	.0	.0	.4	3.6	3.7	.2	.0	*	.0	335	.1	7.9
1	.0	.0	.4	6.4	3.6	.2	.0	.0	.0	448	.2	10.4
0	.0	.1	1.6	10.0	3.4	.1	.0	.0	.0	639	.6	14.7
-1	.0	.1	1.8	9.1	2.2	*	.0	.0	.0	553	.5	12.7
-2	*	*	4.0	7.3	1.2	.1	.0	.0	.0	533	.3	12.4
-3	.0	*	2.7	4.4	.9	*	.0	.0	.0	342	.4	7.8
-4	.0	.1	2.4	3.8	.5	.0	.0	.0	.0	291	.3	6.7
-5	.0	*	1.2	1.9	.4	.0	.0	.0	.0	145	.1	3.3
-6	.0	.1	1.1	1.3	.1	.0	.0	.0	.0	106	.1	2.5
-7/-8	.0	*	1.0	.8	*	.0	.0	.0	.0	81	.2	1.7
-9/-10	.0	*	.3	.3	.0	.0	.0	.0	.0	27	*	.6
-11/-13	.0	.0	.1	.1	*	.0	.0	.0	.0	12	*	.3
-14/-16	.0	.0	*	*	.0	.0	.0	.0	.0	2	.0	*
TOTAL	1	24	735	2250	979	167	24	11	1	4192	127	4065
PCT	*	.6	17.5	53.7	23.4	4.0	.6	.3	*	100.0	3.0	97.0

PERIOD: (OVER-ALL) 1962-1973

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	.4	.1	.0	.0	.0	.7
1-2	.1	3.9	2.9	.0	.0	.0	6.9
3-4	.1	3.7	9.0	1.3	.0	.0	14.0
5-6	.0	1.1	5.7	1.8	.0	.0	8.7
7	.0	.3	3.8	1.3	.0	.0	5.4
8-9	.0	.0	1.3	.8	.0	.0	2.1
10-11	.1	.0	.4	.6	.0	.0	1.1
12	.0	.0	.1	.1	.0	.0	.2
13-16	.0	.0	.0	.1	.0	.0	.1
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.4	9.5	23.3	6.0	.0	.0	39.1

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	*	.1	.0	.0	.0	.1
1-2	.1	.2	.4	.0	.0	.0	.7
3-4	.1	.8	.6	.0	.0	.0	1.5
5-6	.0	.1	.1	*	.0	.0	.2
7	.0	.0	.3	.2	.0	.0	.5
8-9	.0	.0	.2	*	.0	.0	.2
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	1.2	1.6	.2	.0	.0	3.2

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.3	.0	.0	.0	.0	.3
3-4	.0	.1	.0	.0	.0	.0	.1
5-6	.0	.1	.0	.0	.0	.0	.1
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.1	.0	.0	.0	.1
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.4	.1	.0	.0	.0	.5

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	*	.0	.0	.0	.0	*
1-2	.0	.1	.0	.0	.0	.0	.1
3-4	.0	.0	.3	.0	.0	.0	.3
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.1	.3	.0	.0	.0	.4

PERIOD: (OVER-ALL) 1963-1979

AUGUST

AREA 0033 SANTA ROSA IS. SW
32.0N 122.2W

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

S

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.2	.0	.0	.0	.0	.2
1-2	.0	.0	.2	.0	.0	.0	.2
3-4	.0	.1	.0	.0	.0	.0	.1
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.3	.2	.0	.0	.0	.5

SW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	*	.1	*	.0	.0	.0	.1
3-4	.0	.2	*	*	.0	.0	.3
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	*	.3	*	*	.0	.0	.4

W

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.5	.0	.0	.0	.0	.6
1-2	.1	1.7	.6	.0	.0	.0	2.4
3-4	.1	1.1	1.3	.2	.0	.0	2.7
5-6	.0	.2	.6	.1	.0	.0	.9
7	.0	.0	.1	.0	.0	.0	.1
8-9	.0	.0	.1	.0	.0	.0	.1
10-11	.0	.0	.0	.1	.0	.0	.1
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.1	.0	.0	.0	.1
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	3.6	2.8	.3	.0	.0	6.9

NW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.3	1.1	.1	.0	.0	.0	1.6	
1-2	.3	3.6	5.5	.0	.0	.0	9.4	
3-4	.3	3.8	12.3	1.9	.0	.0	18.4	
5-6	.0	1.0	8.0	1.4	.0	.0	10.3	
7	.0	.3	3.0	1.5	.0	.0	4.8	
8-9	.0	.1	1.3	.7	.0	.0	2.1	
10-11	.0	.0	.2	1.1	.0	.0	1.3	
12	.0	.0	*	.0	.0	.0	*	
13-16	.0	.0	.1	.0	.0	.0	.1	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.9	9.9	30.5	6.6	.0	.0	48.0	99.1

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	1.4	2.4	.3	.0	.0	.0	4.1	
1-2	.5	9.9	9.6	.0	.0	.0	20.0	
3-4	.6	9.8	23.6	3.5	.0	.0	37.5	
5-6	.0	2.5	14.4	3.3	.0	.0	20.3	
7	.0	.6	7.1	3.0	.0	.0	10.8	
8-9	.0	.1	3.0	1.5	.0	.0	4.6	
10-11	.1	.0	.6	1.7	.0	.0	2.4	
12	.0	.0	.1	.1	.0	.0	.2	
13-16	.0	.0	.2	.1	.0	.0	.3	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	2.7	25.3	58.8	13.3	.0	.0	100.0	1116

PERIOD: (OVER-ALL) 1949-1979

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	.6	7.3	17.4	7.0	3.6	1.4	1.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1044	4
6-7	.1	1.4	8.0	10.8	7.9	3.7	1.5	.7	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	961	6
8-9	.1	3.2	3.8	2.5	4.1	2.5	1.4	.4	.2	*	*	.0	.0	.0	.0	.0	.0	.0	.0	496	6
10-11	.0	1.0	.3	.7	.9	.7	.4	.1	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	120	6
12-13	.0	.0	.1	.2	.3	.1	.1	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	29	8
>13	.0	.0	.0	.0	.1	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	8	8
INDET	1.5	.2	.3	.3	.2	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	74	2
TOTAL	65	353	810	585	462	237	122	44	32	1	1	0	0	0	0	0	0	0	0	2712	5
PCT	2.4	13.0	29.9	21.6	17.0	8.7	4.5	1.6	1.2	*	*	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

SEPTEMBER

PERIOD: (PRIMARY) 1947-1973
(OVER-ALL) 1869-1973

AREA 0033 SANTA ROSA IS. SW
32.0N 122.1W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	.4	.2	.8	.0	.0	.0	.0	1.3	.5	.0	1.6	.0	3.5		.0	93.1
NE	2.7	.4	.4	.0	.0	.0	.0	3.0	.4	.8	3.0	.0	6.8		.0	85.9
E	1.2	.0	5.3	.0	.0	.0	.0	5.3	2.4	.0	2.9	.0	3.5		.0	85.9
SE	.0	.0	.6	.0	.0	.0	.0	.6	2.6	2.6	3.2	.0	2.6		.0	88.3
S	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	8.5	.0	.0		.0	91.5
SW	.0	.0	.0	.0	.0	.0	.0	.0	4.5	.0	1.9	.0	6.1		.0	87.5
W	1.0	.3	2.7	.0	.0	.0	.0	3.5	.1	.3	4.6	.2	5.9		.0	85.5
NW	.3	.2	.8	.0	.0	.0	.0	1.1	.2	.1	3.7	*	6.9		*	87.7
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	.0
CALM	.0	.0	4.9	.0	.0	.0	.0	4.9	.0	.0	6.2	.0	4.9		.0	84.0
TOT PCT	.5	.2	1.1	.0	.0	.0	.0	1.6	.4	.1	3.1	*	5.5		*	89.2
TOT OBS:	4579															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00&03	.5	.3	.7	.0	.0	.0	.0	1.3	.3	.1	2.4	.0	7.5		.0	88.6
06&09	.7	.0	1.4	.0	.0	.0	.0	1.8	.6	.4	3.7	.1	6.1		.0	87.5
12&15	.3	.1	1.0	0	.0	.0	.0	1.4	.6	.0	4.0	.1	3.7		.1	90.1
18&21	.3	.4	1.2	0	.0	.0	.0	1.8	.3	.1	2.7	.0	4.6		.0	90.7
TOT PCT	.5	.2	1.1	.0	.0	.0	.0	1.5	.4	.1	3.1	*	5.5		*	89.3
TOT OBS:	4605															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	1.0	8.0	19.7	4.3	*	.0		33.1	14.5	36.2	32.7	31.2	28.2	32.0	30.1	35.4	34.8
NE	.4	1.5	.8	.1	*	.0		2.9	9.9	2.3	2.3	2.3	2.2	3.9	4.0	3.2	2.6
E	.2	.6	.1	*	.0	.0		.9	6.6	.3	.0	1.1	.7	1.0	1.2	1.5	1.1
SE	.2	.6	.1	*	.0	.0		.9	6.2	.7	.3	.9	.2	1.2	1.4	.9	1.0
S	.3	.8	.1	*	.0	.0		1.2	6.6	1.2	.8	1.4	.2	.9	1.6	1.4	1.3
SW	.3	1.1	.3	.1	.0	.0		1.8	8.0	2.1	1.5	1.4	1.2	2.4	1.3	1.6	1.9
W	.7	5.0	3.4	.4	.1	.0		9.6	10.5	8.8	9.9	10.7	10.6	11.2	9.2	7.3	10.0
NW	.8	12.6	28.2	6.3	*	.0		47.9	14.8	46.4	51.2	48.8	54.9	46.0	49.8	46.4	46.0
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.8							1.8	.0	1.9	1.3	2.2	2.0	1.4	1.4	2.3	1.3
TOT OBS	273	1441	2524	538	7	0	4783		13.5	856	388	772	300	795	415	800	457
TOT PCT	5.7	30.1	52.8	11.2	.1	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	3.2	17.9	11.3	.7	.0		33.1	14.5	35.1	30.3	31.3	35.2
NE	1.0	1.3	.5	*	.0		2.9	9.9	2.3	2.3	3.9	3.0
E	.6	.3	*	.0	.0		.9	6.6	.2	1.0	1.1	1.4
SE	.6	.3	*	.0	.0		.9	6.2	.6	.7	1.3	.9
S	.7	.4	.1	.0	.0		1.2	6.6	1.1	1.0	1.2	1.4
SW	.8	.8	.1	.0	.0		1.8	8.0	1.9	1.4	2.0	1.7
W	2.8	5.3	1.5	.1	.0		9.6	10.5	9.2	10.7	10.5	8.3
NW	4.3	25.0	17.8	.9	.0		47.9	14.8	47.9	50.5	47.3	46.3
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	1.8						1.8	.0	1.7	2.1	1.4	1.9
TOT OBS	755	2453	1496	79	0	4783		13.5	1244	1072	1210	1257
TOT PCT	15.8	51.3	31.3	1.7	.0		100.0		100.0	100.0	100.0	100.0

SEPTEMBER

PERIOD: (PRIMARY) 1947-1973
(OVER-ALL) 1869-1973

AREA 0033 SANTA ROSA IS, SW
32.0N 122.1W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	1.7	3.1	27.3	55.6	12.2	.0	.0	14.0	100.0	1244
06&09	2.1	3.5	28.2	51.6	14.0	.6	.0	14.1	100.0	1072
12&15	1.4	4.5	31.7	52.6	9.7	.1	.0	13.1	100.0	1210
18&21	1.9	4.5	33.1	51.1	9.5	.0	.0	12.9	100.0	1257
TOT	85	188	1441	2524	538	7	0	13.5		4783
PCT	1.8	3.9	30.1	52.8	11.2	.1	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	10.3	4.4	8.5	13.3		5.0
NE	.8	.2	.7	1.1		5.1
E	.3	.1	.3	.3		4.9
SE	.3	.1	.3	.3		4.5
S	.3	.2	.4	.3		4.6
SW	.5	.2	.6	.6		5.2
W	2.5	.7	2.1	3.6		5.2
NW	14.3	3.6	9.9	17.2		4.9
VAR	.0	.0	.0	.0		.0
CALM	.8	.2	.3	.8		4.6
TOT OBS	948	300	723	1175	3146	4.9
TOT PCT	30.1	9.5	23.0	37.3	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.2	.1	.3	2.7	9.1	6.2	1.6	*	.1	.2	19.8	
NE	.1	.0	*	.4	.7	.4	.1	.0	*	*	1.0	
E	*	.0	.0	.2	.2	.1	*	.0	.0	.0	.4	
SE	.0	.0	.1	.1	.2	*	*	.0	.0	.0	.5	
S	*	.0	.0	*	.3	.1	.0	.0	.0	.0	.7	
SW	*	.0	.0	.2	.4	.3	.0	*	*	*	.8	
W	.1	.1	.3	1.0	2.0	1.4	.2	*	*	*	3.6	
NW	.5	.2	1.2	4.7	11.7	5.6	1.1	.2	.1	.3	19.4	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.1	.0	.0	.2	.4	.2	.1	.0	.0	.0	1.0	
TOT OBS	33	13	62	299	788	450	99	11	11	17	1383	3146
TOT PCT	1.0	.4	2.0	9.5	25.0	14.3	3.1	.3	.3	.5	43.3	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NH)

CEILING (FEET)	VSBY (NH) * OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >50YD	* OR >0
* OR >6500	.7	.9	.9	.9	.9	.9	.9	.9
* OR >5000	.9	1.2	1.2	1.2	1.2	1.2	1.2	1.2
* OR >3500	3.5	4.4	4.4	4.4	4.4	4.4	4.4	4.4
* OR >2000	14.6	18.5	18.7	18.8	18.8	18.8	18.8	18.8
* OR >1000	33.5	43.3	43.7	43.8	43.8	43.8	43.8	43.8
* OR >600	39.6	52.3	53.1	53.1	53.2	53.2	53.2	53.2
* OR >300	40.3	53.5	55.0	55.1	55.1	55.1	55.2	55.2
* OR >150	40.4	54.2	55.4	55.5	55.5	55.5	55.6	55.6
* OR > 0	40.5	54.5	55.9	56.0	56.1	56.2	56.5	56.5
TOTAL	1276	1716	1759	1763	1767	1769	1779	1780

TOTAL NUMBER OF OBS: 3148 PCT FREQ NH <5/8: 43.5

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
17.3	6.7	8.9	5.8	4.0	4.5	7.2	10.6	34.3	.8	3337

PERIOD: (PRIMARY) 1947-1973
(OVER-ALL) 1859-1973

AREA 0033 SANTA ROSA IS, SW
33.6N 122.1W

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.1	*	*	.0	.0	*	.2	.3	.0	.0	.5	
	TOT %	.1	*	*	.0	.0	*	.2	.3	.0	.0	.5	
1/2<1	PCP	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	*	
	NO PCP	.1	.0	.0	.0	.0	*	*	.5	.0	.0	.7	
	TOT %	.1	*	.0	.0	.0	*	*	.5	.0	.0	.7	
1<2	PCP	*	*	.0	.0	.0	.0	.0	.0	.0	*	.1	
	NO PCP	.1	*	.0	.0	.0	*	*	.1	.0	.0	.3	
	TOT %	.1	.1	.0	.0	.0	*	*	.1	.0	*	.3	
2<5	PCP	*	*	*	.0	.0	.0	*	.1	.0	*	.2	
	NO PCP	.5	.2	*	*	.1	*	.2	1.1	.0	.1	2.2	
	TOT %	.5	.2	.1	*	.1	*	.2	1.1	.0	.1	2.4	
5<10	PCP	.3	*	*	*	.0	.0	.2	.4	.0	*	1.0	
	NO PCP	7.5	.8	.2	.2	.1	.5	3.0	13.7	.0	.2	26.1	
	TOT %	7.8	.9	.2	.2	.1	.5	3.2	14.1	.0	.2	27.1	
10+	PCP	.1	.0	.0	.0	.0	.0	.1	.1	.0	*	.3	
	NO PCP	24.9	1.7	.6	.6	1.0	1.2	5.9	31.4	.0	1.4	68.6	
	TOT %	24.9	1.7	.6	.6	1.0	1.2	5.9	31.5	.0	1.4	69.9	
	TOT OBS												4565
	TOT PCT	33.5	2.9	.9	.8	1.2	1.7	9.6	47.6	.0	1.8	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	*	*	.0	.0	.1	
	4-10	*	*	*	.0	.0	*	.1	.2	.0		.4	
	11-21	.1	.0	.0	.0	.0	.0	*	.1	.0		.3	
	22+	.0	.0	.0	.0	.0	.0	.0	*	.0		*	
	TOT %	.1	*	*	.0	.0	*	.2	.4	.0	.0	.7	
1/2<1	0-3	*	.0	.0	.0	.0	.0	.0	*	.0	.0	.1	
	4-10	.1	*	.0	.0	.0	*	*	.3	.0		.4	
	11-21	.1	.0	.0	.0	.0	.0	*	.3	.0		.4	
	22+	.0	*	.0	.0	.0	.0	*	*	.0		.1	
	TOT %	.2	.1	.0	.0	.0	*	.1	.7	.0	.0	1.0	
1<2	0-3	.0	.0	.0	*	*	.0	.0	.0	.0	*	*	
	4-10	*	*	.0	.0	.0	*	*	.1	.0		.3	
	11-21	.1	.1	.0	.0	.0	.0	*	.1	.0		.2	
	22+	*	.0	.0	.0	.0	.0	.0	*	.0		*	
	TOT %	.1	.1	.0	*	*	*	.1	.3	.0	*	.6	
2<5	0-3	*	.0	.0	.0	.0	*	*	*	.0	.1	.2	
	4-10	.2	.2	.1	*	.1	*	.2	.4	.0		1.0	
	11-21	.2	*	.0	.0	.0	.0	.1	.7	.0		1.0	
	22+	.1	.0	.0	.0	.0	.0	.0	.2	.0		.3	
	TOT %	.5	.2	.1	*	.1	*	.3	1.3	.0	.1	2.6	
5<10	0-3	.3	.1	*	.1	*	.1	.3	.3	.0	.2	1.5	
	4-10	1.9	.4	.2	.1	.1	.3	1.4	3.3	.0		7.7	
	11-21	4.2	.2	*	.0	.0	.1	1.2	8.1	.0		13.9	
	22+	1.3	.1	.0	.0	*	*	.2	2.2	.0		3.7	
	TOT %	7.7	.9	.2	.2	.1	.5	3.1	14.0	.0	.2	26.8	
10+	0-3	.6	.2	.2	.1	.2	.2	.4	.4	.0	1.4	3.7	
	4-10	5.7	.9	.3	.4	.6	.7	3.2	8.2	.0		20.1	
	11-21	15.3	.5	.1	.1	.1	.2	2.1	18.9	.0		37.2	
	22+	2.9	.1	*	*	.0	*	.3	3.9	.0		7.2	
	TOT %	24.5	1.7	.6	.6	1.0	1.2	5.9	31.3	.0	1.4	68.3	
	TOT OBS												4680
	TOT PCT	33.1	2.9	.9	.9	1.2	1.8	9.6	47.9	.0	1.7	100.0	

SEPTEMBER

PERIOD: (PRIMARY) 1947-1973
(OVER-ALL) 1869-1973

AREA 0033 SANTA ROSA IS. SW
32.0N 122.1W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET,NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00&03	.1	.2	2.3	8.7	23.3	14.6	4.2	.5	.6	.4	54.8	45.2	838
06&09	1.1	.6	1.9	7.3	24.1	12.9	1.9	.4	.4	.8	51.3	48.7	793
12&15	1.3	.5	1.7	11.2	24.7	13.3	2.2	.1	.3	.7	55.9	44.1	769
18&21	1.6	.2	1.8	10.1	26.4	15.5	4.2	.4	.1	.4	60.8	39.2	813
TOT	33	13	62	299	791	452	101	11	11	17	1790	1423	3213
PCT	1.0	.4	1.9	9.3	24.6	14.1	3.1	.3	.3	.5	55.7	44.3	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00&03	.5	1.4	.7	2.7	23.8	71.0	1229
06&09	.7	.6	.1	2.5	30.5	65.6	1069
12&15	.9	1.1	1.1	2.8	29.8	64.3	1188
18&21	1.0	.7	.4	2.3	23.6	72.0	1222
TOT	37	45	27	121	1261	3217	4708
PCT	.8	1.0	.6	2.6	26.8	68.3	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET,NH >4/8),BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	.1	2.9	13.2	43.6	43.2	821
06&09	1.2	3.8	12.0	40.3	47.7	782
12&15	1.3	3.6	16.0	41.3	42.6	755
18&21	1.4	3.7	14.8	47.8	37.3	790
TOT	31	110	440	1363	1345	3148
PCT	1.0	3.5	14.0	43.3	42.7	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
80/84	*	.0	.0	*	*	*	.0	.0	4	.1
75/79	.0	.0	*	.1	.1	.2	.2	.1	21	.6
70/74	.0	.0	*	.3	1.2	2.1	1.4	.4	199	5.3
65/69	.0	.0	.1	.9	2.8	9.0	15.7	8.2	1374	36.8
60/64	.0	.0	.0	.1	2.2	10.3	27.7	12.6	1974	52.9
55/59	.0	.0	.0	.0	.1	.3	2.0	2.0	162	4.3
50/54	.0	.0	.0	.0	.0	.0	*	.0	1	*
TOTAL	1	0	5	49	237	819	1755	869	3735	100.0
PCT	*	.0	.1	1.3	6.3	21.9	47.0	23.3		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
*	*	.0	.0	.0	.0	*	*	.0	.0
.2	*	.0	.0	.0	*	*	.2	.0	.1
1.9	.3	.1	.1	.1	.1	.5	2.0	.0	.2
12.5	1.4	.5	.2	.5	.7	3.9	16.3	.0	.8
16.2	1.2	.5	.6	.4	.9	4.7	27.7	.0	.6
.9	.1	.0	*	.1	*	.5	2.6	.0	.1
.0	.0	.0	.0	.0	.0	.0	*	.0	.0
31.8	3.1	1.0	.9	1.1	1.8	9.7	48.8	.0	1.8

TABLE 15

MEANS,EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00&03	79	75	71	65	60	58	50	65.2	1241
06&09	76	70	68	63	59	56	52	63.2	1078
12&15	79	69	67	63	59	57	54	62.8	1210
18&21	80	74	71	65	60	57	52	65.2	1258
TOT	80	73	70	64	59	57	50	64.1	4787

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00&03	.0	1.0	9.5	25.8	43.2	20.5	81	987
06&09	.0	.9	4.2	15.8	51.2	27.8	85	855
12&15	.0	1.5	3.1	17.3	49.4	28.7	85	926
18&21	.1	2.2	8.1	27.5	45.1	17.0	81	987
TOT	1	54	239	821	1766	874	83	3755

PERIOD: (PRIMARY) 1947-1973
(OVER-ALL) 1869-1973

TABLE 17

AREA 0033 SANTA ROSA IS. SW
32.6N 122.1W

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	49 52	53 56	57 60	61 64	65 68	69 72	73 76	77 80	TOT	W FOG	WO FOG
17/19	.0	.0	.0	.0	.0	.0	.0	*	2	.0	*
14/16	.0	.0	.0	.0	.0	.0	*	.1	4	.0	.1
11/13	.0	.0	.0	*	*	.1	.1	.1	15	.0	.3
9/10	.0	.0	.0	.0	.1	.2	.2	.0	20	.0	.5
7/8	.0	.0	.0	*	.5	.5	.3	*	61	*	1.4
6	.0	.0	.0	.1	.4	.6	.2	.0	57	*	1.3
5	.0	.0	*	.2	.7	.7	.1	*	81	.1	1.8
4	.0	.0	.0	.8	1.4	.8	.2	*	146	.1	3.2
3	.0	.0	.1	.6	2.6	1.3	.1	.0	206	.1	4.6
2	*	.0	.4	2.1	3.9	1.2	*	.0	336	.2	7.4
1	.0	.0	.3	3.0	4.5	.9	*	.0	388	.2	8.5
0	.0	.1	1.1	7.6	6.0	.5	*	.0	675	.6	14.6
-1	.0	*	.9	6.6	4.6	.1	.0	*	541	.4	11.8
-2	.0	*	1.6	7.8	3.4	*	.0	.0	573	.3	12.6
-3	.0	.0	1.0	6.7	3.1	.2	.0	.0	483	.3	10.6
-4	.0	*	1.7	5.3	1.0	.1	.0	.0	357	.3	7.8
-5	.0	*	.9	3.2	.8	.0	.0	.0	221	.1	4.8
-6	.0	.1	.7	1.6	.1	*	.0	.0	111	.1	2.4
-7/-8	.0	*	.7	1.2	.2	*	.0	.0	97	.1	2.1
-9/-10	.0	.1	.2	.3	.2	*	.0	.0	36	*	.8
-11/-13	*	*	.2	.2	.0	.0	.0	.0	18	.0	.4
-14/-16	.0	.0	.0	.1	.0	.0	.0	.0	6	.0	.1
TOTAL	2	21	429	2098	1488	324	59	13	4434	126	4308
PCT	*	.5	9.7	47.3	33.6	7.3	1.3	.3	100.0	2.8	97.2

PERIOD: (OVER-ALL) 1963-1973

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.4	1.0	.1	.0	.0	.0	1.5
1-2	.3	4.0	2.7	.0	.0	.0	7.0
3-4	.2	2.0	7.3	.6	.0	.0	10.1
5-6	.1	.7	5.6	1.0	.0	.0	7.4
7	.0	.1	2.1	.9	.0	.0	3.1
8-9	.0	.1	.5	1.1	.0	.0	1.7
10-11	.0	.0	.4	.1	.0	.0	.5
12	.0	.0	.0	.1	.0	.0	.1
13-16	.0	.0	.1	.0	.0	.0	.1
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.9	7.9	18.7	3.9	.0	.0	31.5

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	.7	.1	.0	.0	.0	.9
1-2	.0	1.0	.1	.0	.0	.0	1.1
3-4	.0	.3	.7	.0	.0	.0	1.0
5-6	.0	.3	.2	.1	.0	.0	.6
7	.0	.1	.1	.1	.0	.0	.3
8-9	.0	.0	*	.1	.0	.0	.1
10-11	.0	.0	.1	.0	.0	.0	.1
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.1	.0	.0	.0	.1
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	2.3	1.3	.3	.0	.0	4.1

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.4	.0	.0	.0	.0	.4
1-2	.1	.5	.0	.0	.0	.0	.6
3-4	.0	.3	.1	.0	.0	.0	.3
5-6	.0	.0	.1	.0	.0	.0	.1
7	.0	.0	.1	.0	.0	.0	.1
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.1	1.1	.3	.0	.0	.0	1.5

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.1	.0	.0	.0	.0	.1
1-2	.0	.3	.0	.0	.0	.0	.3
3-4	.0	.4	.0	.0	.0	.0	.4
5-6	.0	.0	*	.0	.0	.0	*
7	.0	.0	*	.0	.0	.0	*
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	1.0	*	.0	.0	.0	1.1

PERIOD: (OVER-ALL) 1963-1973

SEPTEMBER

AREA 0033 SANTA ROSA IS. SW
32.6N 122.1W

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

	S							SW						
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.3	.0	.0	.0	.0	.3	*	.4	.0	.0	.0	.0	.4
1-2	.2	.5	.0	.0	.0	.0	.6	.2	.4	.1	.0	.0	.0	.6
3-4	.0	.4	.1	.0	.0	.0	.4	.1	.1	.2	.0	.0	.0	.4
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.1
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.1
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	1.1	.1	.0	.0	.0	1.4	.3	1.1	.3	.0	.0	.0	1.6

	W							NW							TOTAL
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	PCT
<1	.3	.9	.0	.0	.0	.0	1.2	.2	2.0	.1	.0	.0	.0	2.2	
1-2	.0	2.3	1.1	.0	.0	.0	3.4	.1	6.1	4.9	.0	.0	.0	11.1	
3-4	.0	.9	.8	.1	.0	.0	1.7	.1	4.6	10.0	1.1	.0	.0	15.8	
5-6	.0	.1	.4	.0	.0	.0	.5	.0	.9	8.4	1.5	.0	.0	10.9	
7	.0	.1	.3	.0	.0	.0	.4	.0	.2	3.7	1.1	.0	.0	5.1	
8-9	.0	.0	.0	.1	.0	.0	.1	.0	.1	1.3	.9	.0	.0	2.3	
10-11	.0	.0	.1	.1	.1	.0	.2	.0	.0	.6	.5	.0	.0	1.1	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.2	.0	.0	.3	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	.2	.0	.0	.2	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.3	4.3	2.6	.2	.1	.0	7.5	.3	13.9	29.2	5.6	.0	.0	48.9	97.7

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	3.2	5.7	.3	.0	.0	.0	9.1	
1-2	.9	15.3	8.9	.0	.0	.0	25.1	
3-4	.4	8.9	19.1	1.8	.0	.0	30.3	
5-6	.1	2.1	14.7	2.7	.0	.0	19.5	
7	.1	.5	4.4	2.1	.0	.0	9.1	
8-9	.0	.3	1.8	2.2	.0	.0	4.2	
10-11	.0	.0	1.1	.8	.1	.0	1.9	
12	.0	.0	.1	.3	.0	.0	.3	
13-16	.0	.0	.3	.2	.0	.0	.4	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	4.7	32.7	52.5	10.0	.1	.0	100.0	1192

PERIOD: (OVER-ALL) 1949-1973

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	1.0	7.8	11.5	6.9	3.0	1.5	.3	.1	.1	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	837	4
6-7	*	3.7	11.5	7.7	6.4	3.1	1.3	.7	.3	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	902	5
8-9	.0	.5	2.7	3.7	4.3	1.7	1.2	.3	.7	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	392	6
10-11	.0	1.0	2.9	1.2	1.5	1.0	.8	.6	.3	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	239	6
12-13	.0	.0	.5	.1	.5	.2	.2	.1	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	45	7
>13	.0	.0	.0	.2	.2	.3	.1	*	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	24	8
INDET	3.0	1.0	.6	.7	.2	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	153	2
TOTAL	106	368	772	534	415	205	102	44	42	3	1	0	0	0	0	0	0	0	0	2592	5
PCT	4.1	14.2	29.8	20.6	16.0	7.9	3.9	1.7	1.6	.1	*	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

OCTOBER

PERIOD: (PRIMARY) 1945-1973
(OVER-ALL) 1857-1973

AREA 0033 SANTA ROSA IS. SW
32.0N 122.3W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA				
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	.2	.4	.6	.0	.0	.0	.0	1.2	.3	.1	3.6	.0	2.6	*		92.3
NE	.6	.6	.0	.0	.0	.0	.0	1.1	.0	.3	4.7	.1	4.7	.6		88.4
E	1.6	.0	.0	.0	.0	.0	.0	1.6	3.3	.0	4.9	1.2	5.8	.0		89.1
SE	4.6	.3	2.0	.0	.0	.0	.0	7.0	.0	5.3	2.6	.0	1.3	.0		83.8
S	1.7	1.7	2.3	.0	.0	.0	.0	5.6	1.3	.0	2.6	.8	4.1	.0		85.5
SW	.6	.2	1.3	.0	.0	.0	.0	2.1	1.0	.0	3.2	.0	5.1	.1		88.4
W	.4	.0	1.1	.0	.0	.0	.0	1.5	.2	.0	3.2	.1	4.7	.3		90.1
NW	.1	.2	.4	.0	.0	.0	.0	.7	.6	.1	4.4	.1	2.7	*		91.3
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	17.5	.0	4.2	.8		77.5
TOT PCT	.3	.3	.6	.0	.0	.0	.0	1.2	.5	.1	4.2	.1	3.2	.1		90.6
TOT OBS:	5048															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA				
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00&03	.4	.3	.2	.0	.0	.0	.0	.9	.4	.1	4.1	.0	3.9	.1		90.5
06&09	.5	.3	.4	.0	.0	.0	.0	1.2	.6	.2	3.6	.3	2.3	.1		91.7
12&15	.2	.4	1.1	.0	.0	.0	.0	1.7	.4	.2	4.9	.2	3.0	.2		89.6
18&21	.2	.2	.8	.0	.0	.0	.0	1.1	.5	.1	4.1	.0	3.4	.1		90.7
TOT PCT	.3	.3	.6	.0	.0	.0	.0	1.2	.5	.1	4.2	.1	3.2	.1		90.6
TOT OBS:	5091															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	1.0	9.4	17.0	5.2	.5	.0		33.0	14.8	35.6	32.2	31.7	33.2	31.3	32.6	35.3	30.5
NE	.3	1.7	1.2	.2	*	.0		3.4	10.6	3.4	3.7	3.8	2.7	3.7	2.7	3.4	3.0
E	.3	.7	.2	.1	.0	.0		1.2	7.4	.9	1.6	2.3	.5	1.0	1.6	1.1	1.0
SE	.2	.8	.3	.1	.0	.0		1.5	8.4	1.9	2.8	1.0	1.8	.6	1.6	1.0	2.0
S	.3	1.5	.8	.1	*	.0		2.7	9.7	2.7	2.5	2.6	3.8	2.9	2.5	2.5	2.4
SW	.5	2.5	1.4	*	*	.0		4.5	8.9	4.2	3.7	3.9	3.2	3.6	5.5	4.9	7.2
W	.8	7.6	3.5	.3	*	.0		12.2	9.3	9.8	12.8	12.9	13.2	14.6	12.3	10.9	12.4
NW	1.3	12.6	20.1	4.9	.4	.0		39.2	14.0	39.2	39.5	39.5	39.1	39.7	39.4	37.6	40.0
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	2.3							2.3	.0	2.3	1.2	2.4	2.5	2.7	1.9	3.1	1.6
TOT OBS	367	1952	2348	568	47	0	5282		12.8	942	416	744	293	884	481	849	573
TOT PCT	6.9	37.0	44.5	10.8	.9	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	4.1	16.5	10.6	1.8	*		33.0	14.8	34.5	32.2	31.7	33.4
NE	1.1	1.7	.6	.1	.0		3.4	10.6	3.5	3.4	3.3	3.3
E	.9	.2	.2	.0	.0		1.2	7.4	1.1	1.6	1.2	1.1
SE	.8	.5	.2	*	.0		1.5	8.4	2.2	1.3	1.0	1.4
S	.8	1.6	.2	*	.0		2.7	9.7	2.7	3.0	2.7	2.5
SW	1.6	2.6	.3	*	.0		4.5	8.9	4.0	3.7	4.2	5.8
W	3.8	7.5	.8	.1	.0		12.2	9.3	10.7	13.0	13.8	11.5
NW	5.6	20.5	11.7	1.4	*		39.2	14.0	39.3	39.4	39.6	38.6
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	2.3						2.3	.0	2.0	2.5	2.4	2.5
TOT OBS	1108	2695	1298	178	3	5282		12.8	1358	1137	1365	1422
TOT PCT	21.0	51.0	24.6	3.4	.1		100.0		100.0	100.0	100.0	100.0

OCTOBER

PERIOD: (PRIMARY) 1949-1973
(OVER-ALL) 1857-1973

AREA 0033 SANTA ROSA IS. SW
32.6N 122.3W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	2.0	3.9	35.9	45.0	12.6	.6	.0	13.2	100.0	1358
06&09	2.5	4.2	36.5	44.1	11.2	1.6	.0	13.0	100.0	1137
12&15	2.4	5.1	38.1	45.5	8.0	1.0	.0	12.3	100.0	1365
18&21	2.5	5.2	37.2	43.2	11.3	.6	.0	12.5	100.0	1422
TOT	123	244	1952	2348	568	47	0	12.8		5282
PCT	2.3	4.6	37.0	44.5	10.8	.9	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	12.2	5.6	8.0	11.1		4.5
NE	1.2	.3	.7	1.4		4.8
E	.7	.1	.1	.3		3.2
SE	.3	.1	.3	.4		5.5
S	.7	.2	.7	.7		4.9
SW	1.1	.4	1.0	1.0		4.8
W	3.5	.9	2.0	3.4		4.6
NW	14.2	4.7	8.1	11.8		4.3
VAR	.0	.0	.0	.0		.0
CALM	.8	.2	.4	1.3		5.0
TOT OBS	1234	443	754	1124	3555	4.5
TOT PCT	34.7	12.5	21.2	31.6	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.4	.1	.7	2.2	6.5	6.6	1.0	*	.1	.1	19.2	
NE	*	*	*	.2	.6	.9	.1	.0	*	*	1.7	
E	.0	.0	*	.1	.2	.1	.0	.0	.0	*	.9	
SE	.0	.0	*	.1	.3	.3	*	.0	.0	*	.4	
S	*	.0	*	.2	.7	.2	*	*	*	.1	1.0	
SW	.1	.0	.1	.3	.6	.3	.2	.0	.1	.1	1.9	
W	.2	*	.1	.7	2.1	1.2	.3	.0	.0	.0	5.2	
NW	.5	.1	.6	2.6	8.4	5.0	.8	.1	.1	.1	20.6	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.1	.2	.7	.2	.3	.1	.0	*	1.1	
TOT OBS	43	7	61	233	711	527	97	9	13	17	1837	3555
TOT PCT	1.2	.2	1.7	6.6	20.0	14.8	2.7	.3	.4	.5	51.7	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM) * OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >50YD	* OR >0
* OR >6500	.7	.8	.9	.9	.9	.9	.9	.9
* OR >5000	.9	1.1	1.1	1.1	1.1	1.1	1.1	1.1
* OR >3500	3.3	3.6	3.8	3.8	3.8	3.8	3.8	3.8
* OR >2000	16.3	18.5	18.8	18.8	18.8	18.8	18.8	18.8
* OR >1000	30.2	37.9	38.6	38.6	38.6	38.6	38.6	38.6
* OR >600	33.6	44.3	45.1	45.2	45.2	45.2	45.2	45.2
* OR >300	34.3	45.5	46.7	46.8	46.9	46.9	46.9	46.9
* OR >150	34.4	45.6	46.8	47.0	47.1	47.1	47.1	47.1
* OR > 0	34.5	46.0	47.2	47.5	47.8	47.9	48.2	48.3
TOTAL	1230	1640	1685	1694	1706	1710	1720	1725

TOTAL NUMBER OF OBS: 3568 PCT FREQ NH <5/8: 51.7

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
23.0	6.1	10.0	6.8	5.7	4.4	7.2	7.7	28.1	1.0	3734

PERIOD: (PRIMARY) 1949-1973
(OVER-ALL) 1857-1973

AREA 0033 SANTA ROSA IS. SW
32.0N 122.3W

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.2	*	.0	.0	.0	*	.2	.5	.0	.0	.8	
	TOT %	.2	*	.0	.0	.0	*	.2	.5	.0	.0	.8	
1/2<1	PCP	*	.0	.0	.0	.0	.0	.0	*	.0	.0	*	
	NO PCP	.6	*	*	.0	*	*	*	.3	.0	*	1.1	
	TOT %	.6	*	*	.0	*	*	*	.3	.0	*	1.1	
1<2	PCP	*	.0	.0	.0	*	.0	.0	*	.0	.0	*	
	NO PCP	.1	*	*	.0	*	.0	*	.1	.0	*	.3	
	TOT %	.1	*	*	.0	*	.0	*	.1	.0	*	.3	
2<5	PCP	*	.0	*	*	*	*	*	.1	.0	.0	.3	
	NO PCP	.4	.1	*	.1	.1	.1	.3	.5	.0	.1	1.7	
	TOT %	.5	.1	.1	.1	.1	.1	.3	.6	.0	.1	2.0	
5<10	PCP	.2	*	.0	*	.1	.1	.1	.1	.0	.0	.7	
	NO PCP	7.2	.8	.3	.5	.4	.9	2.8	9.2	.0	.7	22.8	
	TOT %	7.4	.9	.3	.5	.5	1.0	2.9	9.3	.0	.7	23.5	
10+	PCP	.1	.0	.0	*	*	*	*	.1	.0	.0	.2	
	NO PCP	24.4	2.4	.8	.8	1.9	3.3	8.8	28.1	.0	1.5	72.0	
	TOT %	24.5	2.4	.8	.9	2.0	3.3	8.8	28.2	.0	1.5	72.3	
	TOT OBS												5040
	TOT PCT	39.2	3.5	1.2	1.5	2.6	4.4	12.3	39.0	.0	2.4	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	*	.0	.0	.0	.0	*	
	4-10	.1	*	.0	.0	.0	.0	.1	.3	.0		.5	
	11-21	.1	*	.0	.0	.0	*	.1	.3	.0		.4	
	22+	*	.0	.0	.0	.0	.0	.0	*	.0		*	
	TOT %	.2	*	.0	.0	.0	*	.2	.6	.0	.0	1.0	
1/2<1	0-3	*	.0	.0	.0	.0	*	*	*	.0	*	.1	
	4-10	.2	*	*	.0	*	*	*	.2	.0		.5	
	11-21	.3	*	.0	.0	*	.0	*	.2	.0		.5	
	22+	.1	.0	*	.0	.0	.0	.0	*	.0		.2	
	TOT %	.6	*	*	.0	.1	*	.1	.4	.0	*	1.3	
1<2	0-3	.0	*	*	.0	.0	*	*	*	.0	*	.1	
	4-10	.1	*	*	.0	*	*	*	*	.0		.3	
	11-21	*	.0	.0	.0	.0	.0	*	.1	.0		.2	
	22+	.0	.0	*	*	*	.0	*	*	.0		.1	
	TOT %	.1	*	.1	*	*	*	.1	.2	.0	*	.7	
2<5	0-3	*	*	.0	*	*	*	.1	*	.0	.1	.3	
	4-10	.2	.1	*	.0	.1	*	.3	.4	.0		1.1	
	11-21	.2	*	*	.1	*	*	.1	.3	.0		.8	
	22+	*	.0	.0	.0	.0	.0	.0	*	.0		.1	
	TOT %	.5	.1	.1	.1	.1	.1	.4	.8	.0	.1	2.3	
5<10	0-3	.4	.1	.1	.1	.1	.1	.3	.4	.0	.7	2.6	
	4-10	2.2	.4	.1	.3	.3	.7	1.6	2.9	.0		8.5	
	11-21	3.9	.4	.1	.1	.1	.1	.9	4.8	.0		10.4	
	22+	.7	*	.0	*	.1	*	*	1.1	.0		2.0	
	TOT %	7.3	.9	.3	.5	.5	1.0	2.9	9.2	.0	.7	23.2	
10+	0-3	.5	.1	.1	.1	.1	.3	.4	.7	.0	1.5	3.9	
	4-10	6.5	1.2	.5	.5	1.1	1.7	5.8	8.6	.0		26.0	
	11-21	12.5	.8	.1	.2	.6	1.2	2.3	14.6	.0		32.3	
	22+	4.8	.2	*	*	*	*	.3	4.1	.0		9.5	
	TOT %	24.3	2.4	.7	.8	1.9	3.2	8.7	28.0	.0	1.5	71.6	
	TOT OBS												5144
	TOT PCT	32.9	3.4	1.2	1.5	2.6	4.4	12.3	39.2	.0	2.4	100.0	

OCTOBER

PERIOD: (PRIMARY) 1945-1973
(OVER-ALL) 1857-1973

AREA 0033 SANTA ROSA IS. SW
32.0N 122.3W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET,NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00&03	1.3	.2	1.5	6.2	18.1	14.3	3.5	.1	.2	.2	45.6	54.4	938
06&09	.8	.0	1.0	6.7	18.6	13.3	2.4	.1	.3	.7	44.0	56.0	877
12&15	1.4	.1	2.1	6.5	22.0	13.3	2.1	.3	.4	.7	48.9	51.1	914
18&21	1.4	.4	2.0	6.5	19.3	17.4	2.6	.4	.5	.3	50.9	49.1	929
TOT	45	7	61	236	713	535	97	9	14	17	1734	1924	3658
PCT	1.2	.2	1.7	6.5	19.5	14.6	2.7	.2	.4	.5	47.4	52.6	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00&03	1.1	1.5	1.0	2.5	21.3	72.6	1356
06&09	.7	.9	.2	1.5	25.7	71.0	1131
12&15	1.3	1.3	.4	3.0	26.7	67.3	1347
18&21	.7	1.3	1.0	2.0	19.8	75.2	1353
TOT	50	66	34	119	1208	3710	5187
PCT	1.0	1.3	.7	2.3	23.3	71.5	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET,NH >4/8), BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	1.3	3.2	10.2	36.6	53.2	912
06&09	.8	2.1	9.4	35.5	55.2	863
12&15	1.5	3.8	12.1	38.2	49.7	890
18&21	1.4	4.1	11.6	41.2	47.2	903
TOT	45	118	387	1352	1829	3568
PCT	1.3	3.3	10.8	37.9	51.3	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
80/84	.0	.0	.0	.0	*	.0	.0	.0	1	*
75/79	.0	*	*	.2	.1	.2	.1	.0	19	.5
70/74	.0	.0	.0	.3	.9	1.2	.8	.3	136	3.6
65/69	.0	.0	.1	.3	3.0	9.6	9.6	3.2	1054	27.8
60/64	.0	.0	.1	.4	4.4	18.0	25.8	10.7	2252	59.3
55/59	.0	.0	*	.1	.6	1.3	3.5	3.2	333	8.8
50/54	.0	.0	.0	.0	*	.0	.0	.1	3	.1
TOTAL	0	1	8	47	345	1148	1508	741	3798	100.0
PCT	.0	*	.2	1.2	9.1	30.2	39.7	19.5		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.0	.0	.0	.0	.0	*	.0	.0
.1	*	.0	.0	.0	*	.1	.2	.0	*
1.1	.1	.1	*	.2	.3	.6	.9	.0	.1
8.1	.9	.6	.7	1.4	2.5	4.0	8.7	.0	.8
18.5	1.9	.5	.4	1.2	2.1	8.1	25.5	.0	1.1
2.5	.2	.1	.1	.1	.3	1.0	4.3	.0	.2
*	.0	.0	.0	.0	.0	.0	*	.0	.0
30.4	3.1	1.3	1.3	2.9	5.2	13.8	39.7	.0	2.4

TABLE 15

MEANS,EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00&03	81	75	70	64	59	57	55	64.2	1367
06&09	74	68	67	63	58	55	54	62.5	1142
12&15	74	68	66	62	58	55	53	62.1	1371
18&21	77	73	70	64	59	56	54	64.3	1425
TOT	81	72	69	63	58	56	53	63.3	5305

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00&03	.0	2.4	11.2	32.9	38.2	15.3	80	992
06&09	.0	.7	6.6	24.3	44.5	23.8	83	844
12&15	.0	1.0	5.6	27.3	40.5	25.6	84	978
18&21	.0	1.6	12.5	35.3	36.3	14.2	80	1005
TOT	0	56	348	1153	1516	748	81	3819

OCTOBER

PERIOD: (PRIMARY) 1945-1973
(OVER-ALL) 1957-1973

AREA 0033 SANTA ROSA IS. SW
32.6N 122.3W

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	53 56	57 60	61 64	65 68	69 72	73 76	77 80	81 84	TOT	W FOG	WO FOG
17/19	.0	.0	.0	.0	.0	.0	.0	*	1	.0	*
14/16	.0	.0	.0	.0	.0	*	*	.0	3	.0	.1
11/13	.0	.0	.0	.0	*	*	.1	.0	8	.0	.2
9/10	.0	.0	*	.1	.1	.2	.1	.0	21	.0	.5
7/8	.0	.0	.1	.2	.6	.2	.0	.0	51	.0	1.1
6	.0	.0	*	.3	.4	.1	.0	.0	38	*	.8
5	.0	*	.2	.5	.9	.2	.0	.0	81	*	1.7
4	.0	.1	.7	1.3	.3	.2	.0	.0	119	.1	2.5
3	.0	*	.7	2.1	.4	.1	.0	.0	158	.1	3.3
2	.0	.3	2.8	3.1	.4	*	*	.0	308	.2	6.5
1	*	.5	3.6	4.4	.5	*	.0	.0	419	.4	8.7
0	.0	1.1	8.9	4.3	.3	.0	.0	.0	676	.6	14.0
-1	.1	1.9	8.1	3.6	.1	.0	.0	.0	639	.5	13.3
-2	.1	3.1	9.9	1.8	.2	.0	.0	.0	698	.6	14.4
-3	.2	2.6	6.5	1.3	*	.0	.0	.0	485	.4	10.1
-4	.2	2.4	3.9	.9	.0	.0	.0	.0	342	.2	7.2
-5	.3	1.7	2.6	.7	.0	.0	.0	.0	244	.4	4.9
-6	.2	1.1	1.5	.2	.0	.0	.0	.0	133	.2	2.7
-7/-8	.2	1.1	1.9	.2	.0	.0	.0	.0	156	.3	3.1
-9/-10	.1	.3	.3	*	.0	.0	.0	.0	35	.1	.7
-11/-13	.0	*	.1	*	.0	.0	.0	.0	8	*	.1
-14/-16	.0	.0	*	.0	.0	.0	.0	.0	1	*	.0
TOTAL	62	753	2393	1159	200	46	10	1	4624	194	4430
PCT	1.3	16.3	51.8	25.1	4.3	1.0	.2	*	100.0	4.2	95.8

PERIOD: (OVER-ALL) 1963-1973

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	2.1	.1	.0	.0	.0	2.5
1-2	.3	4.0	3.4	.0	.0	.0	7.6
3-4	.2	1.7	6.7	1.1	.0	.0	9.6
5-6	.1	.5	4.1	2.0	.1	.0	6.8
7	.0	.1	2.1	.5	.1	.0	2.8
8-9	.1	.0	.7	.9	.0	.0	1.7
10-11	.0	.0	.8	.4	.6	.0	1.7
12	.0	.0	.2	.2	.0	.0	.4
13-16	.0	.0	.0	.2	.0	.0	.2
17-19	.0	.0	.1	.0	.0	.0	.1
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.0	8.3	18.0	5.2	.8	.0	33.3

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	*	.3	.0	.0	.0	.0	.3
1-2	.0	.6	.2	.0	.0	.0	1.0
3-4	.0	.5	.7	.1	.0	.0	1.3
5-6	.0	.1	.5	.0	*	.0	.6
7	.0	.0	.3	.1	.0	.0	.4
8-9	.0	.0	.1	.0	.0	.0	.1
10-11	.0	.0	.0	.1	.0	.0	.1
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	*	1.7	1.7	.3	*	.0	3.8

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.5	.0	.0	.0	.0	.6
1-2	.1	.2	.1	.0	.0	.0	.3
3-4	.1	.1	.1	.0	.0	.0	.3
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.1	.0	.0	.0	.1
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.1	.0	.0	.1
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	.8	.2	.1	.0	.0	1.4

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	.5	.0	.0	.0	.0	.6
1-2	.0	.2	.2	.0	.0	.0	.3
3-4	.0	.0	.2	.0	.0	.0	.2
5-6	.0	.0	.1	.0	.0	.0	.1
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	*	.0	.0	*
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	.6	.4	*	.0	.0	1.3

PERIOD: (OVER-ALL) 1963-1973 OCTOBER AREA 0033 SANTA ROSA IS. SW

TABLE 18 (CONT) 32.6N 122.3W

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

	S							SW						
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.4	.0	.0	.0	.0	.4	.2	.6	.1	.0	.0	.0	.9
1-2	.0	.5	.4	.0	.0	.0	.9	.1	1.4	.8	.0	.0	.0	2.4
3-4	.1	.4	.3	.1	.0	.0	.9	.0	.1	.7	*	.0	.0	.9
5-6	.0	.1	.3	.0	.0	.0	.4	.1	.2	.4	.0	.0	.0	.7
7	.0	.0	.0	.0	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.1
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.1	1.3	1.1	.2	.1	.0	2.8	.4	2.4	2.0	*	.1	.0	4.9

	W							NW							TOTAL
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	PCT
<1	.3	.9	.1	.0	.0	.0	1.3	.2	1.9	.2	.0	.0	.0	2.3	
1-2	.1	3.4	1.1	.0	.0	.0	4.6	.4	4.9	5.2	.0	.0	.0	10.5	
3-4	.0	1.4	.7	.3	.0	.0	2.4	.1	2.9	9.0	1.4	.0	.0	13.4	
5-6	.0	.4	.6	.0	.0	.0	1.0	.0	.7	4.0	1.8	.0	.0	6.5	
7	.0	.2	.1	.1	.0	.0	.3	.0	.3	2.8	1.6	.2	.0	4.8	
8-9	.0	.1	.1	.1	.0	.0	.3	.0	.1	.9	.7	.1	.0	1.8	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	.3	.1	.0	.8	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	.0	.0	*	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.1	.0	.0	.3	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.4	6.4	2.9	.5	.0	.0	9.9	.7	10.8	22.6	6.0	.4	.0	40.3	97.6

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	3.7	7.2	.4	.0	.0	.0	11.3	
1-2	1.1	15.3	11.2	.0	.0	.0	27.7	
3-4	.4	7.1	18.3	3.1	.0	.0	28.9	
5-6	.2	1.9	10.0	3.7	.2	.0	15.9	
7	.0	.5	5.4	2.2	.3	.0	8.4	
8-9	.1	.2	1.7	2.0	.1	.0	4.0	
10-11	.0	.0	1.2	.9	.8	.0	2.8	
12	.0	.0	.2	.3	.0	.0	.4	
13-16	.0	.0	.2	.3	.0	.0	.4	
17-19	.0	.0	.1	.0	.0	.0	.1	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	5.5	32.2	48.6	12.4	1.4	.0	100.0	1174

PERIOD: (OVER-ALL) 1949-1973 TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	1.5	10.1	15.8	5.6	3.2	1.1	.5	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1109	4
6-7	.1	1.6	6.7	7.1	5.3	3.6	1.4	1.0	.3	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	794	6
8-9	.0	.5	1.8	2.1	3.8	1.9	2.3	.6	.5	.1	*	.0	.0	.0	.0	.0	.0	.0	.0	399	7
10-11	.0	1.0	1.6	1.8	1.8	1.4	.6	.5	.4	.0	*	.1	.0	.0	.0	.0	.0	.0	.0	271	6
12-13	.0	.0	.3	.5	.7	.1	.2	1.0	.3	*	*	.0	.0	.0	.0	.0	.0	.0	.0	95	9
>13	.0	.0	.0	.1	.1	.1	.1	.1	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	15	9
INDET	4.2	2.5	.8	.4	.4	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	246	2
TOTAL	169	457	789	518	446	244	148	96	49	8	3	2	0	0	0	0	0	0	0	2929	5
PCT	5.8	15.6	26.9	17.7	15.2	8.3	5.1	3.3	1.7	.3	.1	.1	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1945-1973
(OVER-ALL) 1854-1973

AREA 0033 SANTA ROSA IS. SW
32.0N 122.2W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG	DUST BLWG SNOW	NO SIG WEA
N	.6	.6	.7	.0	.0	.0	.0	1.8	.5	.1	3.3	1	2.1		.0	92.1
NE	1.9	1.6	1.6	.0	.0	.0	.0	5.2	1.6	.2	4.9	.0	6.4		.0	81.6
E	2.5	.9	2.5	.0	.0	.0	.0	5.8	4.0	.0	1.8	.0	7.6		.9	79.9
SE	9.4	1.3	2.8	.0	.0	.0	.0	12.6	3.2	.0	.9	.0	1.7		.0	81.6
S	3.8	.2	1.8	.0	.1	.0	.0	5.8	3.6	.0	2.9	.0	1.0		.0	86.8
SW	2.8	1.0	2.1	.0	.0	.0	.0	5.9	4.5	.0	4.0	.0	2.5		.0	83.1
W	1.9	1.7	1.6	.0	.0	.0	.0	5.2	1.1	.0	4.9	.5	1.3		.2	86.8
NW	.6	.4	.5	.0	.0	.0	.0	1.5	.8	*	3.6	.3	1.8		.0	92.1
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	.0
CALM	.7	.0	.0	.0	.0	.0	.0	.7	.0	.0	7.5	.0	6.7		.0	85.1
TOT PCT	1.3	.7	1.0	.0	.0	.0	.0	3.0	1.2	.1	3.7	.2	2.3		*	89.5
TOT OBS:	4579															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG	DUST BLWG SNOW	NO SIG WEA
00&03	1.1	.8	.7	.0	.0	.0	.0	2.5	.6	.1	3.4	.1	3.5		.0	89.8
06&09	1.7	.6	.9	.0	.0	.0	.0	3.2	1.5	.0	3.5	.3	1.8		.0	89.7
12&15	1.3	.8	1.5	.0	.0	.0	.0	3.6	2.1	.2	3.6	.1	1.9		.0	88.5
18&21	1.3	.6	.8	.0	.0	.0	.0	2.7	.9	.0	4.1	.2	2.0		.2	89.9
TOT PCT	1.3	.7	1.0	.0	.0	.0	.0	3.0	1.3	.1	3.7	.2	2.3		*	89.5
TOT OBS:	4612															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	.6	10.0	16.1	4.3	.3	.0		31.3	14.2	32.8	35.1	30.8	40.0	28.5	30.4	29.6	29.4
NE	.2	2.3	1.7	.4	*	.0		4.7	11.5	3.5	4.9	5.0	5.8	3.8	5.0	5.1	5.8
E	.3	1.3	.7	.1	*	.0		2.4	10.0	2.3	2.6	2.0	2.8	2.3	1.9	2.9	2.2
SE	.3	1.4	.6	.2	*	.0		2.6	10.1	2.7	2.4	2.3	2.5	2.1	2.9	2.9	2.8
S	.4	1.7	1	.2	*	.0		4.4	11.6	4.7	3.0	4.0	3.4	4.9	2.7	6.4	3.9
SW	.3	2.8	1.9	.2	*	.0		5.2	10.5	5.9	4.7	6.3	2.7	6.5	3.9	4.9	4.4
W	.9	5.2	4.5	.7	*	.0		11.3	11.0	10.8	11.3	10.6	7.3	12.4	12.8	11.3	12.0
NW	.9	10.8	18.5	4.4	.3	.0		35.0	14.1	34.1	33.9	35.9	32.6	35.2	37.2	33.8	37.1
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	3.1							3.1	.0	3.1	2.1	3.1	2.8	4.3	3.4	3.1	2.3
TOT OBS	342	1712	2226	501	34	0	4815		12.7	897	380	673	283	765	447	814	556
TOT PCT	7.1	35.6	46.2	10.4	.7	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	4.0	16.6	9.4	1.2	*		31.3	14.2	33.5	33.5	29.2	29.5
NE	1.4	2.2	1.0	.1	.0		4.7	11.5	3.9	5.3	4.2	5.4
E	.7	1.4	.3	*	.0		2.4	10.0	2.4	2.2	2.2	2.7
SE	1.0	1.2	.3	.1	.0		2.6	10.1	2.6	2.3	2.4	2.8
S	.8	2.7	.8	*	.0		4.4	11.6	4.2	3.8	4.1	5.4
SW	1.6	2.9	.7	.1	.0		5.2	10.5	5.6	5.3	5.5	4.7
W	2.9	6.6	1.5	.2	.0		11.3	11.0	10.9	9.6	12.5	11.6
NW	4.4	19.4	9.6	1.6	*		35.0	14.1	34.0	34.9	36.0	35.1
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	3.1						3.1	.0	2.8	3.0	4.0	2.8
TOT OBS	964	2547	1142	159	3	4815		12.7	1277	956	1212	1370
TOT PCT	20.0	52.9	23.7	3.3	.1		100.0		100.0	100.0	100.0	100.0

NOVEMBER

PERIOD: (PRIMARY) 1945-1973
(OVER-ALL) 1854-1973

AREA 0033 SANTA ROSA IS. SW
32.0N 122.2W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	2.8	4.0	33.8	46.0	12.1	1.3	.0	13.3	100.0	1277
06&09	3.0	3.3	38.4	45.3	9.1	.8	.0	12.5	100.0	936
12&15	4.0	4.1	33.7	48.4	9.4	.3	.0	12.4	100.0	1212
18&21	2.8	4.2	36.9	45.1	10.6	.4	.0	12.6	100.0	1370
TOT	151	191	1712	2226	501	34	0	12.7		4815
PCT	3.1	4.0	35.6	46.2	10.4	.7	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	12.8	4.6	8.5	7.1		4.0
NE	2.1	.4	1.0	1.0		3.6
E	.9	.2	.5	.9		4.5
SE	.7	.2	.8	.9		5.3
S	.8	.7	2.0	1.9		5.9
SW	1.3	.6	1.7	2.2		5.4
W	3.0	1.3	3.3	3.0		4.8
NW	12.1	4.9	8.4	6.6		4.0
VAR	.0	.0	.0	.0		.0
CALM	1.2	.4	.9	1.2		4.7
TOT OBS	1066	406	827	756	3055	4.3
TOT PCT	34.9	13.3	27.1	24.7	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
.5	.2	.5	1.9	5.5	4.2	.5	.2	.1	.1	19.2	
*	*	.1	.1	.8	.5	*	*	.0	*	2.7	
.0	.0	.1	.3	.3	.2	*	*	*	*	1.5	
.0	.0	*	.4	.5	.4	.1	.0	*	*	1.2	
*	.1	.1	.5	.9	.8	.1	.1	.1	.1	2.6	
.2	.0	.2	.5	.7	1.2	.2	.1	*	*	2.7	
.2	.1	.2	.9	1.9	[illegible]3	.1	.2	.1	.1	5.6	
.5	.1	.8	2.2	4.3	3.6	.7	.2	.1	.1	19.4	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
.2	.0	.1	.2	.6	.6	*	*	.0	.1	1.9	
46	15	65	216	475	394	56	23	12	18	1733	3055
1.5	.5	2.1	7.1	15.5	12.9	1.8	.8	.4	.6	56.7	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM) * OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >50YD	* OR >0
* OR >6500	.8	1.0	1.0	1.0	1.0	1.0	1.0	1.0
* OR >5000	1.3	1.8	1.8	1.8	1.8	1.8	1.8	1.8
* OR >3500	2.6	3.4	3.6	3.6	3.6	3.6	3.6	3.6
* OR >2000	12.7	16.3	16.6	16.6	16.6	16.6	16.6	16.6
* OR >1000	23.6	31.4	32.1	32.1	32.1	32.1	32.1	32.1
* OR >600	28.5	38.2	38.9	39.1	39.2	39.2	39.3	39.3
* OR >300	29.4	39.9	40.9	41.2	41.2	41.3	41.4	41.4
* OR >150	29.5	40.2	41.3	41.6	41.7	41.8	41.8	41.8
* OR > 0	29.5	40.4	41.6	42.1	42.3	42.5	42.9	43.3
TOTAL	909	1244	1280	1294	1301	1307	1319	1333

TOTAL NUMBER OF OBS: 3077

PCT FREQ NH <5/8: 56.7

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
29.1	7.3	13.4	7.7	5.5	5.8	8.6	8.4	19.0	1.1	3254

PERIOD: (PRIMARY) 1945-1973
(OVER-ALL) 1854-1973

AREA 0033 SANTA ROSA IS. SW
32.0N 122.2W

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	PCP	.0	.0	.0	.0	.0	.0	*	*	.0	.0	.1	
<1/2	NO PCP	.3	.1	.0	*	*	.1	.2	.3	.0	*	1.1	
	TOT %	.3	.1	.0	*	*	.1	.2	.4	.0	*	1.2	
	PCP	.0	.0	.0	.0	.0	.0	*	.0	.0	.0	*	
1/2<1	NO PCP	.2	.1	.0	*	*	*	.1	.2	.0	*	.7	
	TOT %	.2	.1	.0	*	*	*	.1	.2	.0	*	.7	
	PCP	.0	.0	*	*	*	*	*	*	.0	.0	.2	
1<2	NO PCP	.2	*	*	.0	.0	.0	.1	.1	.0	*	.5	
	TOT %	.2	*	*	*	*	*	.2	.2	.0	*	.7	
	PCP	*	*	*	.1	.0	.1	.1	.1	.0	.0	.4	
2<5	NO PCP	.5	.1	.1	*	.1	.1	.3	.7	.0	.1	2.0	
	TOT %	.6	.1	.1	.1	.1	.2	.4	.8	.0	.1	2.4	
	PCP	.4	.2	.1	.2	.1	.1	.2	.3	.0	.0	1.7	
5<10	NO PCP	5.6	1.2	.8	.6	.9	1.2	2.2	6.7	.0	.6	19.8	
	TOT %	6.0	1.4	.9	.8	1.1	1.3	2.4	7.0	.0	.6	21.5	
	PCP	.1	.1	.0	*	.1	.1	.2	.1	.0	*	.7	
10+	NO PCP	23.7	3.0	1.4	1.6	3.2	3.5	7.8	26.4	.0	2.1	72.8	
	TOT %	23.8	3.0	1.4	1.6	3.3	3.6	8.0	26.5	.0	2.1	73.5	
	TOT OBS												4576
	TOT PCT	31.1	4.7	2.4	2.6	4.6	5.3	11.3	35.1	.0	2.9	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	0-3	.1	.0	.0	.0	*	*	*	*	.0	.1	.3	
<1/2	4-10	.1	*	.0	*	.0	.1	.1	.2	.0		.5	
	11-21	.1	.0	.0	.0	.0	.0	.1	.2	.0		.4	
	22+	*	*	.0	.0	.0	.0	*	*	.0		.1	
	TOT %	.3	.1	.0	*	*	.1	.2	.4	.0	.1	1.3	
	0-3	.0	.0	.0	.0	*	*	*	.1	.0	*	.2	
1/2<1	4-10	.1	*	.0	.0	.0	*	*	.1	.0		.2	
	11-21	.1	.1	.0	.0	.0	.0	.1	.1	.0		.3	
	22+	*	.0	.0	*	*	.0	.0	*	.0		*	
	TOT %	.3	.1	.0	*	*	*	.1	.2	.0	*	.8	
	0-3	*	.0	*	.0	.0	.0	.1	*	.0	*	.2	
1<2	4-10	.1	*	*	.0	.0	*	.1	.1	.0		.4	
	11-21	.1	*	*	*	.0	*	.1	.1	.0		.3	
	22+	*	.0	.0	.0	*	.0	.0	*	.0		.1	
	TOT %	.3	*	.1	*	*	*	.2	.3	.0	*	1.0	
	0-3	*	*	*	.0	.0	.0	.0	.1	.0	.1	.2	
2<5	4-10	.3	*	*	*	*	.1	.2	.4	.0		1.2	
	11-21	.4	.1	*	*	*	.1	.2	.4	.0		1.2	
	22+	.1	*	*	*	.0	.0	.0	*	.0		.2	
	TOT %	.7	.1	.1	.1	.1	.2	.4	.9	.0	.1	2.8	
	0-3	.2	.1	.1	.1	.1	.1	.2	.2	.0	.6	1.7	
5<10	4-10	2.0	.7	.4	.3	.3	.7	1.2	2.3	.0		8.0	
	11-21	2.7	.5	.3	.2	.5	.4	.7	3.7	.0		9.2	
	22+	.9	.1	*	.1	.1	*	.2	.8	.0		2.3	
	TOT %	5.8	1.3	.9	.8	1.1	1.3	2.4	7.0	.0	.6	21.2	
	0-3	.3	.1	.2	.3	.2	.2	.5	.5	.0	2.2	4.4	
10+	4-10	7.4	1.6	.8	1.0	1.4	1.8	3.5	7.8	.0		25.3	
	11-21	12.6	1.0	.3	.3	1.6	1.4	3.4	14.2	.0		34.9	
	22+	3.4	.3	.1	*	.1	.2	.5	3.9	.0		8.4	
	TOT %	23.7	3.0	1.4	1.6	3.3	3.6	7.9	26.3	.0	2.2	73.0	
	TOT OBS												4686
	TOT PCT	31.1	4.6	2.4	2.5	4.3	5.3	11.3	35.2	.0	3.1	100.0	

NOVEMBER

PERIOD: (PRIMARY) 1965-1973
(OVER-ALL) 1854-1973

AREA 0033 SANTA ROSA IS. SW
32.6N 122.2W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00&03	1.5	.2	1.9	8.3	15.1	11.5	2.8	.7	.4	.5	43.0	57.0	845
06&09	1.1	.7	1.6	5.5	12.9	11.4	1.5	.8	.3	.7	36.3	63.7	746
12&15	1.2	.7	2.1	7.4	16.0	14.0	1.5	.7	.7	.5	44.6	55.4	757
18&21	1.9	.4	2.5	6.2	15.9	13.1	1.2	1.0	.4	.6	43.0	57.0	842
TOT	46	15	65	219	479	398	96	25	13	18	1334	1856	3190
PCT	1.4	.5	2.0	6.9	15.0	12.5	1.8	.8	.4	.6	41.8	58.2	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00&03	1.7	.6	1.2	2.3	23.1	71.1	1261
06&09	1.3	.2	.3	1.7	20.8	75.7	955
12&15	1.0	1.4	1.1	3.7	22.8	70.1	1203
18&21	1.0	.7	1.2	3.2	18.2	75.8	1300
TOT	59	36	46	130	1001	3447	4719
PCT	1.3	.8	1.0	2.8	21.2	73.0	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET, NH >4/8), BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	1.6	4.4	14.1	32.2	53.7	801
06&09	1.1	3.3	10.2	27.3	62.5	736
12&15	1.2	4.3	13.8	33.0	53.2	739
18&21	2.0	5.1	13.0	33.0	54.1	801
TOT	46	132	394	967	1716	3077
PCT	1.5	4.3	12.8	31.4	55.8	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
75/79	.0	*	.0	*	*	*	*	.0	5	.1
70/74	.0	*	*	.2	.3	.5	.1	.1	42	1.2
65/69	.0	*	.1	.3	1.2	2.9	4.6	1.9	389	11.2
60/64	.0	*	.1	1.4	7.9	16.6	21.1	9.5	1967	56.7
55/59	.0	.0	*	.5	3.9	9.2	10.6	5.5	1030	29.7
50/54	.0	.0	.0	.1	*	.2	.3	.4	34	1.0
45/49	.0	.0	.0	.0	.0	.0	.0	*	1	*
TOTAL	0	4	11	89	464	1024	1271	605	3468	100.0
PCT	.0	.1	.3	2.6	13.4	29.5	36.6	17.4		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
*	.0	.0	.0	.0	.0	*	.1	.0	.0
.4	.1	.1	.1	.1	*	.1	.3	.0	.0
2.4	.5	.3	.5	1.3	1.3	1.5	2.8	.0	.5
16.9	2.5	1.6	1.4	2.9	3.4	7.2	19.3	.0	1.6
10.1	1.2	.4	.5	.4	.7	2.8	12.9	.0	.7
.3	.0	.0	.0	.0	*	.1	.5	.0	*
*	.0	.0	.0	.0	.0	.0	*	.0	.0
30.3	4.2	2.4	2.5	4.6	5.5	11.7	36.0	.0	2.8

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00&03	79	71	67	61	56	54	52	61.5	1273
06&09	73	66	65	60	56	54	50	60.2	962
12&15	78	67	65	60	55	54	47	59.9	1217
18&21	75	70	67	62	57	54	51	61.8	1365
TOT	79	70	66	61	56	54	47	60.9	4817

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00&03	.0	2.4	12.8	32.3	37.4	15.1	80	942
06&09	.0	2.6	10.4	27.5	40.7	18.8	81	695
12&15	.0	2.8	10.5	26.0	38.7	22.0	82	887
18&21	.0	4.0	18.5	31.6	31.3	14.7	78	969
TOT	0	105	465	1032	1281	610	80	3493

PERIOD: (PRIMARY) 1945-1973
(OVER-ALL) 1854-1973

AREA 0033 SANTA ROSA IS, SW
32.6N 122.2W

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	45 48	49 52	53 56	57 60	61 64	65 68	69 72	73 76	77 80	TOT	W FOG	WO FOG
17/19	.0	.0	.0	.0	.0	.0	.0	.0	*	2	.0	*
14/16	.0	.0	.0	.0	.0	.0	.1	*	.0	6	*	.1
11/13	.0	.0	.0	*	*	.0	.1	*	.0	10	.0	.2
9/10	.0	.0	.0	*	.1	.2	.1	.1	.0	22	.0	.5
7/8	.0	.0	.0	*	.3	.4	.4	*	.0	49	*	1.1
6	.0	.0	.0	.1	.2	.3	.1	.0	.0	31	.0	.7
5	.0	.0	*	.2	.5	1.1	.1	*	.0	86	*	1.9
4	.0	.0	.1	.3	1.3	1.2	.2	*	.0	133	.1	3.0
3	.0	.0	.0	.4	1.4	1.6	*	.0	.0	146	.1	3.3
2	.0	.0	*	1.3	4.9	1.1	.1	*	.0	329	.3	7.3
1	.0	.0	.1	2.0	5.2	1.5	*	.0	.0	382	.3	8.5
0	.0	.0	.4	4.8	7.9	1.1	*	.0	.0	616	.5	13.7
-1	.0	.0	.4	4.3	6.4	.7	.0	.0	.0	515	.4	11.5
-2	.0	*	.8	7.8	4.9	.4	*	.0	.0	605	.4	13.5
-3	.0	.0	.7	6.8	3.7	.2	.0	.0	.0	497	.5	10.9
-4	.0	*	1.4	5.4	1.9	.2	.0	.0	.0	387	.3	8.6
-5	.0	.0	.8	3.3	1.1	*	.0	.0	.0	231	.3	5.0
-6	.0	*	.6	2.3	.6	.0	.0	.0	.0	155	.2	3.4
-7/-8	.0	*	.7	1.7	.4	.0	.0	.0	.0	122	.2	2.6
-9/-10	.0	.0	.2	.3	.1	.0	.0	.0	.0	24	*	.5
-11/-13	*	*	*	*	.0	.0	.0	.0	.0	5	*	.1
-14/-16	.0	.0	.0	*	.0	.0	.0	.0	.0	1	.0	*
-17/-19	.0	.0	.0	.0	*	.0	.0	.0	.0	1	.0	*
TOTAL	1	8	271	1787	1780	434	60	12	2	4355	156	4199
PCT	*	.2	6.2	41.0	40.9	10.0	1.4	.3	*	100.0	3.6	96.4

PERIOD: (OVER-ALL) 1963-1973

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	1.3	.0	.0	.0	.0	1.4
1-2	.2	3.6	2.5	.0	.0	.0	6.3
3-4	.0	2.4	5.8	.6	.0	.0	8.8
5-6	.0	.5	3.6	.6	.0	.0	4.7
7	.0	.1	1.0	1.2	.0	.0	2.2
8-9	.0	.0	.6	.2	.0	.0	.8
10-11	.0	.0	.1	.1	.0	.0	.2
12	.0	.0	.0	.1	.0	.0	.1
13-16	.0	.0	.0	.2	.0	.0	.2
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.1	.0	.0	.0	.1
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	7.8	13.6	2.9	.0	.0	24.7

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.5	.0	.0	.0	.0	.5
1-2	*	1.0	.5	.0	.0	.0	1.5
3-4	.0	.5	.3	.0	.0	.0	.8
5-6	.0	*	.1	.0	.0	.0	.2
7	.0	.0	.1	.2	.0	.0	.3
8-9	.0	.0	*	.0	.0	.0	*
10-11	.0	.0	.0	.1	.0	.0	.1
12	.0	.0	.0	.0	.1	.0	.1
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	*	2.1	1.1	.3	.1	.0	3.5

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.3	.0	.0	.0	.0	.4
1-2	.2	.9	.2	.0	.0	.0	1.3
3-4	.0	.3	.4	.0	.0	.0	.6
5-6	.0	.2	.3	.0	.0	.0	.4
7	.0	.0	.1	.0	.0	.0	.1
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	1.7	.9	.0	.0	.0	2.9

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.3	.0	.0	.0	.0	.4
1-2	*	.5	.2	.0	.0	.0	.7
3-4	.0	.8	.6	.2	.0	.0	1.7
5-6	.0	.1	.2	.0	.0	.0	.3
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	*	.0	.0	*
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.1	.0	.0	.1
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.1	.0	.0	.0	.0	.1
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.1	1.8	1.1	.3	.0	.0	3.3

PERIOD: (OVER-ALL) 1963-1979

NOVEMBER

AREA 0033 SANTA ROSA IS. SW
32.0N 122.2W

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

	S							SW						
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	.3	.0	.0	.0	.0	.5	.1	1.7	.0	.0	.0	.0	1.8
1-2	.2	1.0	1.1	.0	.0	.0	2.2	.2	1.2	.7	.0	.0	.0	2.1
3-4	.0	1.1	1.5	.2	.0	.0	2.8	.0	.5	1.5	.0	.0	.0	2.0
5-6	.0	.1	.6	.1	.0	.0	.8	.0	.5	.5	.2	.0	.0	1.2
7	.0	.0	.2	.1	.0	.0	.3	.0	.0	.1	.0	.0	.0	.1
8-9	.0	.1	.4	.2	.0	.0	.6	.0	.1	.0	*	.0	.0	.1
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	*	.0	.0	.2
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	2.7	3.8	.5	.0	.0	7.3	.3	4.0	3.0	.2	.0	.0	7.5

	W							NW							TOTAL
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	PCT
<1	.3	1.4	.0	.0	.0	.0	1.7	.1	1.5	.0	.0	.0	.0	1.6	
1-2	.5	2.2	1.9	.0	.0	.0	4.6	.1	6.0	3.9	.0	.0	.0	10.1	
3-4	.2	1.4	3.0	.3	.0	.0	4.8	.1	2.8	5.8	.9	.0	.0	9.6	
5-6	.1	.7	1.6	.1	.1	.0	2.5	*	.8	3.9	.7	.0	.0	5.5	
7	.0	.0	1.1	.1	.0	.0	1.1	.0	.3	2.4	1.6	.4	.0	4.8	
8-9	.0	.1	.0	.1	.0	.0	.2	.0	.0	.5	.4	.0	.0	.9	
10-11	.0	.0	.0	.2	.0	.0	.2	.0	.0	.1	.2	.0	.0	.3	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	.0	.0	.2	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.2	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	.0	.0	.0	*	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	1.0	5.7	7.5	.6	.1	.0	15.0	.3	11.4	16.9	4.2	.4	.0	33.1	97.3

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	3.2	7.3	.0	.0	.0	.0	10.5	
1-2	1.8	16.5	10.9	.0	.0	.0	29.2	
3-4	.5	9.7	18.9	2.2	.0	.0	31.2	
5-6	.1	2.9	10.9	1.7	.1	.0	15.6	
7	.1	.4	5.0	3.1	.4	.0	8.9	
8-9	.0	.3	1.6	.8	.0	.0	2.7	
10-11	.0	.0	.4	.6	.0	.0	.9	
12	.0	.0	.1	.3	.1	.0	.5	
13-16	.0	.0	.0	.4	.0	.0	.4	
17-19	.0	.1	.0	.0	.0	.0	.1	
20-22	.0	.0	.1	.0	.0	.0	.1	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
								1086
TOT PCT	5.7	37.0	47.7	9.0	.6	.0	100.0	

PERIOD: (OVER-ALL) 1949-1979

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	1.7	13.1	13.1	6.2	3.0	.8	.2	.3	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	1009	3
6-7	.2	2.0	6.4	7.1	4.2	3.6	1.2	.5	.1	.1	*	.0	.0	.0	.0	.0	.0	.0	.0	662	5
8-9	*	1.0	3.6	4.2	3.0	2.5	1.3	.6	.4	*	.2	.0	.0	.0	.0	.0	.0	.0	.0	439	6
10-11	.0	.6	1.2	1.1	1.6	1.2	.8	.5	.5	*	*	.1	.0	.0	.0	.0	.0	.0	.0	199	7
12-13	.0	.0	.5	.4	.4	.7	.5	.4	.1	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	86	9
>13	.0	.0	.0	.3	.2	.2	*	.1	.1	*	.2	.0	.0	.0	.0	.0	.0	.0	.0	29	10
INDET	3.3	1.8	.8	.5	.4	.2	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	185	2
TOTAL	139	481	665	519	332	242	109	61	34	13	12	2	0	0	0	0	0	0	0	2609	5
PCT	5.3	18.4	25.5	19.9	12.7	9.3	4.2	2.3	1.3	.5	.5	.1	.0	.0	.0	.0	.0	.0	.0	100.0	

DECEMBER

PERIOD: (PRIMARY) 1944-1973
(OVER-ALL) 1860-1973

AREA 0033 SANTA ROSA IS. SW
32.7N 122.5W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	.6	.8	1.2	.0	.0	.0	.0	2.3	.7	.0	3.0	.1	.8	.0		93.1
NE	.8	.6	.2	.0	.0	.0	.0	1.6	.8	.0	3.8	.0	.4	.0		93.5
E	2.8	3.2	.8	.0	.0	.0	.0	6.8	.6	.0	2.6	.6	1.2	.0		88.1
SE	4.3	1.2	3.0	.0	.0	.0	.0	7.8	1.8	.0	2.8	.2	3.5	.0		83.9
S	5.3	2.2	3.7	.0	.0	.0	.0	9.3	2.1	.0	3.0	.0	3.2	.0		82.3
SW	2.7	2.1	2.4	.0	.0	.0	.0	6.3	4.5	.0	6.1	.2	.7	.0		82.3
W	1.6	.6	3.1	.0	.0	.0	.0	4.9	1.6	.0	4.5	.4	1.6	.0		87.1
NW	.3	*	.4	.0	.0	.0	.0	.7	1.1	.0	3.3	.2	1.3	.0		93.4
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0
CALM	.0	.0	.7	.0	.0	.0	.0	.7	.7	.7	4.5	.7	.7	.0		91.8
TOT PCT	1.2	.7	1.3	.0	.0	.0	.0	3.0	1.3	*	3.5	.2	1.3	.0		90.8
TOT OBS:	4035															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00&03	1.6	.8	2.1	.0	.0	.0	.0	3.8	.9	.1	3.2	.1	2.1	.0		89.8
06&09	1.5	.9	1.0	.0	.0	.0	.0	3.3	1.6	.0	2.4	.0	.7	.0		91.9
12&15	.9	.5	1.0	.0	.0	.0	.0	2.2	.9	.0	5.1	.3	1.1	.0		90.5
18&21	.9	.8	1.2	.0	.0	.0	.0	2.6	1.7	.0	3.0	.3	1.1	.0		91.3
TOT PCT	1.2	.7	1.3	.0	.0	.0	.0	2.9	1.3	*	3.5	.2	1.3	.0		90.8
TOT OBS:	4070															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)								HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	1.0	10.1	16.2	4.8	.5	.0		32.6	14.7	34.1	28.4	33.5	36.2	31.2	28.6	35.9	30.7
NE	.4	3.5	2.1	.2	*	.0		6.3	10.2	6.2	5.9	6.7	4.4	6.5	7.3	5.7	6.6
E	.2	2.0	.8	*	.0	.0		3.1	8.7	2.5	4.1	2.0	2.6	2.2	4.8	2.8	5.1
SE	.2	1.9	1.4	.2	*	.0		3.7	10.9	3.4	5.1	2.7	1.9	2.7	6.3	3.0	5.9
S	.2	2.7	2.7	.6	*	.0		6.2	12.4	8.0	7.8	5.4	6.7	4.8	5.5	5.^	7 7
SW	.4	2.8	2.0	.4	.0	.0		5.6	10.9	4.8	6.3	4.4	5.6	6.8	5.6	6..	5.2
W	.8	5.2	3.0	.5	.1	.0		9.6	10.4	9.4	7.9	10.5	8.9	11.2	10.3	8.9	9.0
NW	1.0	10.5	13.4	4.2	.3	.0		29.5	14.1	28.6	31.1	30.6	29.7	31.2	29.1	29.0	27.1
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	3.3							3.3	.0	2.9	3.4	4.2	4.0	3.6	2.5	3.2	2.9
TOT OBS	332	1667	1788	470	42	0	4299		12.6	802	326	593	250	666	399	741	522
TOT PCT	7.7	38.8	41.6	10.9	1.0	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)				
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	3.8	16.3	10.8	1.7	*		32.6	14.7	32.5	34.3	30.2	33.7
NE	1.9	3.6	.7	.1	*		6.3	10.2	6.1	6.0	6.8	6.1
E	1.1	1.9	.1	.0	.0		3.1	8.7	3.0	2.2	3.2	3.7
SE	1.1	2.0	.6	.1	.0		3.7	10.9	3.9	2.4	4.0	4.2
S	1.1	3.6	1.4	.1	.0		6.2	12.4	7.9	5.8	5.0	6.1
SW	1.6	3.0	.9	.1	.0		5.6	10.9	5.3	4.8	6.4	6.0
W	3.0	5.3	1.1	.2	*		9.6	10.4	9.0	10.0	10.8	8.9
NW	4.5	15.0	8.6	1.2	.1		29.5	14.1	29.3	30.4	30.4	28.2
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	3.3						3.3	.0	3.0	4.2	3.2	3.1
TOT OBS	916	2182	1042	152	7	4299		12.6	1128	843	1065	1263
TOT PCT	21.3	50.8	24.2	3.5	.2		100.0		100.0	100.0	100.0	100.0

DECEMBER

PERIOD: (PRIMARY) 1944-1973
(OVER-ALL) 1860-1973

AREA 0033 SANTA ROSA IS. SW
32.7N 122.5W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	3.0	3.7	36.6	42.6	12.2	1.8	.0	13.3	100.0	1128
06&09	4.2	3.8	39.6	41.8	9.6	1.1	.0	12.4	100.0	843
12&15	3.2	5.6	40.1	41.0	9.5	.6	.0	12.0	100.0	1065
18&21	3.1	4.4	39.0	41.0	11.9	.6	.0	12.7	100.0	1263
TOT	142	190	1667	1788	470	42	0	12.6		4299
PCT	3.3	4.4	38.8	41.6	10.9	1.0	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	12.6	6.1	12.0	5.9		4.1
NE	2.9	.8	1.4	1.4		3.7
E	.8	.2	.6	.4		4.0
SE	.6	.2	.6	.7		5.2
S	.9	.4	1.6	1.9		5.8
SW	1.0	.7	1.7	1.9		5.5
W	2.6	1.3	2.8	2.1		4.6
NW	10.8	5.5	9.3	4.1		3.9
VAR	.0	.0	.0	.0		.0
CALM	2.2	.4	1.1	.7		3.4
TOT OBS	940	425	853	519	2737	4.2
TOT PCT	34.3	15.5	31.2	19.0	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.2	.2	.5	2.0	6.4	5.3	.5	.1	.2	.2	21.0	
NE	.0	.1	.1	.2	1.1	.6	.1	.1	.1	.0	4.1	
E	.0	*	.1	.1	.1	.3	*	.0	.1	*	1.3	
SE	.0	*	.1	*	.4	.3	.1	*	*	*	1.1	
S	.1	*	.2	.4	.9	.6	.2	*	.1	.1	2.1	
SW	.1	.0	.2	.5	.8	1.1	*	.1	.0	.1	2.4	
W	.1	*	.3	.7	1.4	.9	*	.1	.0	.1	4.9	
NW	.2	.2	.4	1.6	4.7	2.6	.4	.2	.1	.2	18.9	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.1	.0	.1	.1	.4	.5	.1	*	.1	.0	2.8	
TOT OBS	25	15	53	156	446	338	43	20	16	18	1607	2737
TOT PCT	.9	.5	1.9	5.7	16.3	12.3	1.6	.7	.6	.7	58.7	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM) * OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >50YD	* OR >0
* OR >6500	1.0	1.2	1.2	1.2	1.2	1.2	1.2	1.2
* OR >5000	1.6	1.9	1.9	1.9	2.0	2.0	2.0	2.0
* OR >3500	2.9	3.5	3.5	3.5	3.6	3.6	3.6	3.6
* OR >2000	13.5	15.6	15.8	15.9	15.9	15.9	15.9	15.9
* OR >1000	27.6	31.7	32.1	32.1	32.2	32.2	32.2	32.2
* OR >600	31.3	37.1	37.6	37.7	37.9	37.9	37.9	37.9
* OR >300	32.3	38.7	39.5	39.6	39.8	39.8	39.8	39.8
* OR >150	32.4	39.0	39.9	40.0	40.3	40.4	40.4	40.4
* OR > 0	32.5	39.3	40.2	40.5	41.0	41.1	41.2	41.3
TOTAL	894	1081	1108	1116	1128	1131	1135	1136

TOTAL NUMBER OF OBS: 2753 PCT FREQ NH <5/8: 58.7

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
22.4	8.3	11.4	9.1	7.1	6.8	9.5	10.9	14.0 .5	2893

PERIOD: (PRIMARY) 1944-1973
(OVER-ALL) 1860-1973

AREA 0033 SANTA ROSA IS. SW
32.7N 122.5W

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	PCP	.0	.0	.0	*	.0	.0	*	.0	.0	.0	*	
<1/2	NO PCP	.1	.1	.0	*	.1	.1	.2	.2	.0	.1	.8	
	TOT %	.1	.1	.0	.1	.1	.1	.2	.2	.0	.1	.9	
	PCP	.0	.0	.0	.0	*	*	.0	.0	.0	.0	*	
1/2<1	NO PCP	.3	.1	*	*	.0	.1	.1	.1	.0	*	.6	
	TOT %	.3	.1	*	*	*	.1	.1	.1	.0	*	.7	
	PCP	*	.0	.0	.0	.1	*	*	*	.0	.0	.1	
1<2	NO PCP	.1	*	*	*	*	*	.1	.2	.0	.0	.5	
	TOT %	.1	*	*	*	.1	.1	.1	.2	.0	.0	.7	
	PCP	.1	.0	*	*	.2	.1	.1	*	.0	.0	.5	
2<5	NO PCP	.4	.1	.2	.3	.1	.1	.1	.7	.0	*	2.2	
	TOT %	.5	.1	.2	.3	.3	.2	.2	.8	.0	*	2.7	
	PCP	.5	*	.1	.1	.1	.2	.2	.1	.0	*	1.5	
5<10	NO PCP	4.8	.9	.7	.9	1.3	1.1	1.6	4.6	.0	.4	16.2	
	TOT %	5.3	.9	.8	1.0	1.5	1.3	1.9	4.7	.0	.4	17.7	
	PCP	.2	*	*	.1	.1	*	.1	*	.0	.0	.7	
10+	NO PCP	26.9	5.1	2.0	2.3	3.9	3.6	7.2	23.1	.0	2.8	76.7	
	TOT %	27.0	5.2	2.0	2.4	4.1	3.6	7.2	23.1	.0	2.8	77.4	
	TOT OBS												4029
	TOT PCT	33.3	6.4	3.1	3.7	6.1	5.4	9.7	29.0	.0	3.3	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	0-3	*	.0	.0	*	.0	*	.1	*	.0	.1	.3	
<1/2	4-10	*	.1	*	.1	.1	.1	.1	*	.0		.6	
	11-21	*	.0	.0	.0	.0	.0	.0	.1	.0		.1	
	22+	*	.0	.0	.0	.0	.0	.0	*	.0		*	
	TOT %	.1	.1	*	.1	.1	.2	.2	.2	.0	.1	1.0	
	0-3	.0	.0	.0	*	*	.0	*	*	.0	*	.1	
1/2<1	4-10	.1	*	*	*	.0	*	.1	.1	.0		.3	
	11-21	.2	*	*	.0	.0	.1	.0	*	.0		.3	
	22+	.0	.0	.0	.0	*	*	.0	.0	.0		*	
	TOT %	.3	.1	*	*	*	.1	.1	.1	.0	*	.7	
	0-3	.0	.0	.0	.0	*	*	.0	*	.0	.0	.1	
1<2	4-10	*	.0	*	*	.1	*	.1	.2	.0		.5	
	11-21	*	*	.0	.0	*	*	*	.2	.0		.4	
	22+	.0	.0	.0	*	.1	.0	*	.0	.0		.1	
	TOT %	.1	*	*	*	.2	.1	.1	.4	.0	.0	1.1	
	0-3	*	*	*	.0	.0	.0	.0	*	.0	*	.2	
2<5	4-10	.2	.1	.1	.2	.2	.1	.2	.5	.0		1.5	
	11-21	.3	*	*	.1	.1	.1	.1	.2	.0		1.1	
	22+	.1	.0	.0	*	.1	.1	.0	.1	.0		.3	
	TOT %	.6	.1	.2	.3	.4	.3	.3	.9	.0	*	3.1	
	0-3	.2	.2	*	*	*	.1	.2	.3	.0	.4	1.4	
5<10	4-10	1.9	.4	.5	.5	.7	.6	.9	1.7	.0		7.2	
	11-21	2.0	.2	.2	.4	.6	.5	.5	2.0	.0		6.4	
	22+	1.1	.1	*	.1	.1	.1	.2	.8	.0		2.5	
	TOT %	5.1	.9	.8	1.0	1.5	1.3	1.8	4.7	.0	.4	17.6	
	0-3	.8	.2	.1	.1	.2	.3	.5	.6	.0	2.8	5.6	
10+	4-10	7.8	2.9	1.3	1.1	1.7	1.9	3.9	7.8	.0		28.3	
	11-21	14.0	1.9	.5	.9	1.9	1.2	2.3	10.9	.0		33.6	
	22+	4.2	.2	*	.2	.2	.2	.3	3.7	.0		8.9	
	TOT %	26.7	5.1	2.0	2.3	4.0	3.6	7.1	22.9	.0	2.8	76.5	
	TOT OBS												4146
	TOT PCT	32.9	6.3	3.1	3.8	6.1	5.6	9.6	29.3	.0	3.4	100.0	

DECEMBER

PERIOD: (PRIMARY) 1944-1973
(OVER-ALL) 1860-1973

AREA 0033 SANTA ROSA IS. SW
32.7N 122.5W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00&03	.9	.5	2.3	6.3	17.5	12.4	1.7	.5	.8	.7	43.7	56.3	744
06&09	.8	.6	.9	3.7	13.7	10.8	.9	.6	.3	.3	32.7	67.3	649
12&15	1.2	.5	1.8	4.1	16.0	11.6	1.2	1.1	.3	.5	38.3	61.7	661
18&21	.8	.5	2.3	7.6	16.1	13.2	2.2	.6	.8	1.0	45.2	54.8	772
TOT	26	15	53	157	449	341	44	20	16	18	1139	1687	2826
PCT	.9	.5	1.9	5.6	15.9	12.1	1.6	.7	.6	.6	40.3	59.7	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00&03	1.9	.4	1.3	3.2	17.4	75.6	1112
06&09	1.0	.2	.5	1.4	18.8	78.1	835
12&15	1.0	1.5	1.5	4.2	18.9	72.8	1051
18&21	.3	.7	.8	3.3	15.6	79.4	1183
TOT	44	31	44	131	734	3197	4181
PCT	1.1	.7	1.1	3.1	17.6	76.5	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET, NH >4/8), BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	.7	3.9	10.5	34.5	55.0	722
06&09	.9	2.7	7.1	26.7	56.2	636
12&15	1.2	4.0	9.8	30.7	59.5	642
18&21	.8	4.1	13.0	34.1	52.9	753
TOT	25	102	282	873	1598	2753
PCT	.9	3.7	10.2	31.7	58.0	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
70/74	.0	.0	.0	.1	.1	*	.0	.1	7	.2
65/69	*	.1	*	.4	.7	1.6	.9	.5	127	4.2
60/64	.0	.1	.2	1.5	5.0	10.4	12.7	8.3	1155	38.2
55/59	.0	.0	.4	2.0	5.5	13.3	18.3	9.7	1488	49.2
50/54	.0	.0	.1	.6	1.3	1.8	2.7	1.2	233	7.7
45/49	.0	.0	*	.1	.1	.1	*	*	13	.4
TOTAL	1	4	23	139	384	823	1049	600	3023	100.0
PCT	*	.1	.8	4.6	12.7	27.2	34.7	19.8		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
*	*	.0	.0	*	*	.0	.1	.0	.0
1.2	.2	.3	.2	.2	.3	.4	1.2	.0	.3
10.1	2.3	1.5	2.1	3.8	3.5	4.2	9.5	.0	1.3
17.9	3.1	.8	1.3	1.9	1.6	4.7	16.6	.0	1.3
2.8	.4	.1	.1	.1	.1	.7	3.2	.0	.2
.2	.1	*	.0	.0	.0	.0	.1	.0	.0
32.2	6.1	2.7	3.7	6.0	5.6	10.0	30.7	.0	3.0

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00&03	72	68	65	60	55	52	47	59.7	1123
06&09	72	65	63	58	53	49	45	58.1	848
12&15	70	64	63	58	53	50	45	57.9	1074
18&21	72	68	65	60	55	52	47	59.8	1264
TOT	72	67	64	59	54	50	45	59.0	4309

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00&03	.0	4.8	13.1	29.1	34.2	18.8	80	808
06&09	.0	3.6	11.7	23.5	41.0	20.2	81	588
12&15	.1	4.6	10.5	25.5	35.4	23.9	81	769
18&21	.0	8.2	14.9	29.6	30.5	16.8	78	881
TOT	1	167	387	830	1058	603	80	3046

PERIOD: (PRIMARY) 1944-1973
(OVER-ALL) 1860-1973

AREA 0033 SANTA ROSA IS. SW
32.7N 122.5W

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	45 48	49 52	53 56	57 60	61 64	65 68	69 72	TOT	W FOG	WO FOG
14/16	.0	.0	.0	.0	.1	*	.1	6	.0	.2
11/13	.0	.0	.0	.1	.0	*	.0	3	.0	.1
9/10	.0	.0	.0	*	.2	.2	.1	18	.0	.5
7/8	.0	.0	.0	.1	.4	.4	.1	40	.1	.9
6	.0	.0	.1	.2	.5	.3	*	41	.1	1.0
5	.0	.0	.0	.4	1.0	.5	*	71	.1	1.8
4	.0	.0	.1	1.0	1.8	.8	*	138	.1	3.5
3	.0	.0	.1	.7	1.8	.6	.0	121	.1	3.1
2	.0	.0	.3	2.9	3.3	.4	.0	261	.3	6.6
1	.0	.0	.3	3.4	4.2	.4	*	313	.1	8.1
0	*	.1	1.6	6.6	4.3	.2	.0	490	.8	12.1
-1	.0	.1	1.8	6.6	3.5	.2	.0	461	.3	11.8
-2	.0	.1	2.6	7.8	2.5	.1	.0	496	.4	12.6
-3	.0	.2	2.5	7.3	1.2	*	.0	429	.3	11.0
-4	.0	.3	3.2	5.3	.7	.0	.0	362	.4	9.1
-5	.0	.1	2.4	2.7	.5	.0	.0	219	.2	5.5
-6	.0	.2	2.0	1.1	.1	.0	.0	128	.1	3.3
-7/-8	*	.3	1.7	1.1	.1	.0	.0	125	.1	3.2
-9/-10	.1	.2	.6	.3	.1	*	.0	50	.1	1.3
-11/-13	.1	.3	.2	.1	.0	.0	.0	27	.0	.7
-14/-16	.1	.1	.0	.0	.0	.0	.0	7	.0	.2
-17/-19	*	.0	.0	.0	.0	.0	.0	1	.0	*
TOTAL	16	74	736	1813	998	156	14	3807	133	3674
PCT	.4	1.9	19.3	47.6	26.2	4.1	.4	100.0	3.5	96.5

PERIOD: (OVER-ALL) 1963-1973

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	1.1	.1	.0	.0	.0	1.3
1-2	.3	5.5	3.6	.0	.0	.0	9.3
3-4	.0	2.3	5.1	.9	.0	.0	8.2
5-6	.0	.7	2.6	1.9	.1	.0	5.3
7	.1	.4	3.5	.9	.1	.0	5.0
8-9	.0	.1	1.5	1.2	.2	.0	2.9
10-11	.0	.0	.3	1.0	.1	.0	1.4
12	.0	.0	.0	.3	.2	.0	.4
13-16	.0	.0	.1	.6	.2	.0	.9
17-19	.0	.0	.0	.1	.1	.0	.2
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.5	10.0	16.6	6.8	.9	.0	34.8

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	.3	.2	.0	.0	.0	.7
1-2	.2	1.4	.4	.0	.0	.0	2.0
3-4	.1	.7	1.2	.0	.0	.0	2.1
5-6	.0	.2	.4	.3	.0	.0	.9
7	.0	.1	*	.2	.0	.0	.4
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.1	.0	.1
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.6	2.7	2.3	.5	.1	.0	6.1

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.5	.0	.0	.0	.0	.5
1-2	.0	.7	.1	.0	.0	.0	.8
3-4	.0	.3	.2	.0	.0	.0	.5
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	1.5	.3	.0	.0	.0	1.8

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.2	.0	.0	.0	.0	.2
1-2	.0	.4	.2	.0	.0	.0	.6
3-4	*	.2	.3	.0	.0	.0	.4
5-6	.0	.0	.1	.0	.0	.0	.1
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	*	.8	.6	.0	.0	.0	1.4

PERIOD: (OVER-ALL) 1963-1973

DECEMBER

TABLE 18 (CONT)

AREA 0033 SANTA ROSA IS. SW
32.7N 122.5W

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

	S							SW						
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.6	.1	.0	.0	.0	.8	.0	.4	.0	.0	.0	.0	.4
1-2	.1	.9	.2	.0	.0	.0	1.2	.2	1.2	.7	.0	.0	.0	2.1
3-4	.1	.1	.4	.0	.0	.0	.5	.0	.3	1.0	.3	.0	.0	1.5
5-6	.0	.1	.2	.0	.0	.0	.3	.0	.1	.3	.0	.0	.0	.4
7	.0	.0	.1	.0	.0	.0	.1	.0	.1	.2	.0	.0	.0	.4
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	.0	.0	.2
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	1.7	.9	.0	.0	.0	2.9	.2	2.1	2.2	.4	.0	.0	4.9

	W							NW							TOTAL
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	PCT
<1	.1	.6	.0	.0	.0	.0	.7	.0	1.5	.1	.0	.0	.0	1.7	
1-2	.2	3.3	.5	.0	.0	.0	4.0	.1	4.3	3.6	.0	.0	.0	7.9	
3-4	.0	.9	1.0	.0	.0	.0	1.9	.0	2.4	6.0	.9	.0	.0	9.3	
5-6	.1	.3	1.0	.2	.0	.0	1.6	*	1.5	3.9	1.1	.0	.0	6.5	
7	.0	.1	.6	.2	.0	.0	.8	.0	.4	3.0	1.4	*	.0	4.8	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.1	1.2	1.6	.2	.0	3.1	
10-11	.0	.0	.0	.1	.0	.0	.1	.0	.0	.3	1.2	*	.0	1.6	
12	.0	.0	.2	.0	.0	.0	.2	.0	.0	.1	.3	.2	.0	.6	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.4	.2	.0	.9	
17-19	.0	.0	.0	.0	.1	.0	.1	.0	.0	.0	.0	.2	.0	.2	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.4	5.3	3.2	.5	.1	.0	9.4	.1	10.2	18.4	6.9	.8	.0	36.4	97.7

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	2.8	5.3	.5	.0	.0	.0	8.6	
1-2	1.2	17.6	9.1	.0	.0	.0	28.0	
3-4	.2	7.0	15.0	2.1	.0	.0	24.3	
5-6	.2	2.9	8.4	3.4	.1	.0	15.0	
7	.1	1.1	7.4	2.7	.1	.0	11.4	
8-9	.0	.2	2.7	2.9	.4	.0	6.2	
10-11	.0	.0	.6	2.3	.1	.0	3.0	
12	.0	.0	.3	.5	.4	.0	1.2	
13-16	.0	.0	.3	1.0	.5	.0	1.8	
17-19	.0	.0	.0	.1	.3	.0	.4	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	4.5	34.2	44.4	15.0	1.9	.0	100.0	998

PERIOD: (OVER-ALL) 1949-1973

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	1.3	9.7	10.9	6.5	3.2	1.1	.2	.1	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	809	4
6-7	*	2.8	5.9	6.9	4.8	2.8	1.3	.5	.3	*	*	.0	.0	.0	.0	.0	.0	.0	.0	617	5
8-9	.1	1.3	2.9	2.9	4.3	2.8	1.6	.7	.9	.1	*	*	.0	.0	.0	.0	.0	.0	.0	427	7
10-11	.0	.6	1.4	1.4	1.6	2.0	1.1	.7	.8	.2	.0	*	.0	.0	.0	.0	.0	.0	.0	241	8
12-13	.0	.0	.7	.6	.5	.5	.5	.3	.4	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	88	8
>13	.0	.0	.0	.2	.3	.4	.5	.3	.5	*	.1	.0	.0	.0	.0	.0	.0	.0	.0	56	10
INDET	3.6	1.8	1.4	.6	.4	.1	.1	*	*	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	198	2
TOTAL	122	394	566	465	369	232	130	62	72	17	5	2	0	0	0	0	0	0	0	2436	5
PCT	5.0	16.2	23.2	19.1	15.1	9.5	5.3	2.5	3.0	.7	.2	.1	.0	.0	.0	.0	.0	.0	.0	100.0	

ANNUAL

PERIOD: (PRIMARY) 1944-1974
(OVER-ALL) 1834-1974

AREA 0033 SANTA ROSA IS, SW
32.0N 122.2W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG	DUST BLWG	SNOW	NO SIG WEA
N	.4	.4	.9	.0	.0	.0	*	1.6	.6	*	2.7	.1	2.1			*	92.9
NE	1.0	.5	1.2	.0	.0	.0	.0	2.7	.5	.1	4.3	.2	4.0			*	88.2
E	2.1	.6	2.1	.0	.0	.0	.0	4.7	2.2	.0	6.3	.6	4.4			.1	81.7
SE	4.6	.9	2.3	.0	.0	.0	.0	6.9	1.4	.7	7.2	.6	1.9			.1	81.2
S	2.6	1.0	2.7	.0	.0	.0	.0	6.0	2.3	.1	4.3	.2	3.9			.0	83.2
SW	2.0	.9	2.2	.0	.0	.0	*	4.7	2.5	.3	5.2	.2	4.0			*	83.1
W	1.0	.8	2.1	.0	.0	.0	.0	3.6	1.2	.1	5.6	.3	3.4			.1	85.9
NW	.3	.3	.9	.0	.0	.0	.0	1.6	.7	.1	3.7	.1	2.9			*	90.8
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0			.0	.0
CALM	.1	.3	.9	.0	.0	.0	.0	1.3	.4	.1	11.1	.5	4.3			.1	82.4
TOT PCT	.8	.5	1.3	.0	.0	.0	*	2.5	.9	.1	3.9	.2	2.8			*	89.6
TOT OBS: 55973																	

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG	DUST BLWG	SNOW	NO SIG WEA
00&03	.7	.6	1.0	.0	.0	.0	*	2.1	.7	.1	3.5	.1	3.6			*	89.9
06&09	.8	.5	1.3	.0	.0	.0	.0	2.5	1.0	.1	3.8	.2	2.2			*	90.2
12&15	1.0	.6	2.0	.0	.0	.0	.0	3.4	1.0	.1	4.5	.2	2.4			.1	88.3
18&21	.7	.4	1.0	.0	.0	.0	*	2.0	.9	*	3.9	.2	2.9			.1	90.1
TOT PCT	.8	.5	1.3	.0	.0	.0	*	2.5	.9	.1	3.9	.2	2.8			*	89.6
TOT OBS: 56300																	

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	.7	7.6	16.5	5.4	.3	.0		30.5	15.5	32.6	27.0	30.6	30.3	29.0	28.9	32.7	29.2
NE	.2	1.7	1.3	.2	*	.0		3.5	11.3	3.0	3.4	3.5	2.8	3.5	4.0	3.9	3.7
E	.2	.9	.3	*	*	.0		1.4	7.9	1.1	1.1	1.4	1.1	1.3	1.9	1.8	1.7
SE	.2	1.0	.5	.1	*	.0		1.8	8.9	1.6	1.8	1.4	1.7	1.6	2.1	1.9	2.0
S	.3	1.5	1.4	.2	*	.0		3.4	9.6	3.6	3.4	3.1	3.3	3.3	3.4	3.5	3.8
SW	.3	2.2	1.5	.2	*	.0		4.2	9.5	4.2	4.2	3.7	4.0	4.2	4.2	4.0	5.2
W	.7	5.5	4.4	.8	*	.0		11.5	11.2	10.6	12.9	12.0	11.4	12.7	12.0	10.1	11.3
NW	.8	10.8	22.7	7.1	.4	*		41.9	15.2	41.3	44.9	42.2	43.6	42.2	42.4	39.9	41.6
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.8							1.8	.0	1.9	1.3	2.0	1.9	2.1	1.3	2.2	1.5
TOT OBS							58444		13.9	10717	4515	8640	3517	9540	5301	10143	6071
TOT PCT	5.4	31.0	48.7	14.1	.8	*		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	2.9	14.7	11.4	1.5	*		30.5	15.5	31.0	30.5	28.9	31.4
NE	.9	1.9	.6	.1	*		3.5	11.3	3.1	3.3	3.7	3.9
E	.6	.7	.1	*	.0		1.4	7.9	1.1	1.3	1.5	1.7
SE	.7	.8	.2	*	.0		1.8	8.9	1.7	1.5	1.8	2.0
S	.9	1.8	.6	.1	.0		3.4	9.6	3.6	3.2	3.3	3.6
SW	1.3	2.3	.6	.1	*		4.2	9.5	4.2	3.8	4.2	4.4
W	2.8	6.6	1.8	.2	*		11.5	11.2	11.3	11.8	12.5	10.5
NW	4.0	20.8	15.1	2.0	*		41.9	15.2	42.4	42.6	42.3	40.6
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	1.8						1.8	.0	1.7	1.9	1.8	1.9
TOT OBS						58444		13.9	15232	12157	14841	16214
TOT PCT	16.0	49.6	30.4	3.9	.1		100.0		100.0	100.0	100.0	100.0

ANNUAL

PERIOD: (PRIMARY) 1944-1976
(OVER-ALL) 1854-1974

AREA 0033 SANTA ROSA IS. SW
32.0N 122.2W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	1.7	3.0	29.0	50.3	15.1	.9	.0	14.4	100.0	15232
06&09	1.9	3.1	30.5	48.6	14.7	1.1	.0	14.2	100.0	12157
12&15	1.8	3.8	32.3	48.2	13.0	.8	*	13.6	100.0	14841
18&21	1.9	4.1	32.2	47.8	13.5	.5	.0	13.6	100.0	16214
TOT								13.9		58444
PCT	1.8	3.5	31.0	48.7	14.1	.8	*		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	9.6	4.1	9.4	10.6		4.8
NE	1.2	.4	.8	1.2		5.1
E	.5	.1	.3	.5		5.2
SE	.4	.1	.4	.6		5.4
S	.6	.3	1.0	1.5		5.8
SW	.8	.4	1.1	1.6		5.6
W	2.7	1.2	2.6	3.9		5.2
NW	11.6	4.4	9.8	14.2		4.8
VAR	.0	.0	.0	.0		.0
CALM	.7	.2	.5	.8		5.1
TOT OBS					39099	5.0
TOT PCT	27.9	11.2	26.1	34.8	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.3	.1	.5	2.5	7.4	6.3	1.0	.1	.1	.1	18.3	
NE	*	*	.1	.2	.6	.7	.1	*	*	*	1.8	
E	*	*	*	.1	.2	.2	*	*	*	*	.7	
SE	*	*	*	.1	.3	.2	*	*	*	*	.7	
S	.1	*	.1	.3	.7	.5	.1	*	*	.1	1.4	
SW	.1	*	.1	.3	.7	.7	.1	*	*	*	1.7	
W	.3	.1	.3	.9	2.1	1.5	.3	.1	.1	.1	4.7	
NW	.5	.2	1.0	3.6	8.9	6.2	1.0	.2	.1	.1	18.2	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.1	*	.1	.1	.4	.3	.1	*	*	*	1.1	
TOT PCT	1.4	.4	2.2	8.3	21.4	16.6	2.6	.5	.4	.5	45.6	39099 100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM) * OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >50YD	* OR >0
* OR >6500	.7	.9	.9	.9	.9	.9	.9	.9
* OR >5000	1.1	1.4	1.4	1.4	1.4	1.4	1.4	1.4
* OR >3500	3.3	3.9	4.0	4.0	4.0	4.0	4.0	4.0
* OR >2000	16.8	20.3	20.6	20.6	20.6	20.6	20.6	20.6
* OR >1000	32.5	41.3	41.9	42.0	42.0	42.0	42.0	42.0
* OR >600	37.5	49.2	50.1	50.2	50.3	50.3	50.3	50.3
* OR >300	38.4	51.0	52.2	52.4	52.5	52.5	52.5	52.5
* OR >150	38.5	51.3	52.6	52.8	52.9	52.9	52.9	53.0
* OR > 0	38.6	51.7	53.0	53.4	53.7	53.9	54.2	54.4

TOTAL NUMBER OF OBS: 39213 PCT FREQ NH <5/8: 45.6

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
17.5	6.4	9.7	6.6	5.1	5.2	8.4	9.8	30.1	1.1	41166

ANNUAL

PERIOD: (PRIMARY) 1944-1974
(OVER-ALL) 1854-1974

AREA 0033 SANTA ROSA IS. SW
32.0N 122.2W

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	*	*	.0	*	*	*	*	*	.0	.0	.1	
	NO PCP	.1	*	*	*	*	.1	.2	.2	.0	*	.8	
	TOT %	.1	*	*	*	.1	.1	.2	.3	.0	*	.8	
1/2<1	PCP	*	*	*	*	*	*	*	*	.0	.0	.1	
	NO PCP	.2	*	*	*	*	*	.1	.2	.0	*	.7	
	TOT %	.2	*	*	*	*	.1	.1	.3	.0	*	.8	
1<2	PCP	*	*	*	*	*	*	*	*	.0	*	.1	
	NO PCP	.1	*	*	*	*	*	.1	.2	.0	*	.5	
	TOT %	.1	*	*	*	.1	.1	.1	.2	.0	*	.6	
2<5	PCP	.1	*	*	*	.1	.1	.1	.1	.0	*	.4	
	NO PCP	.5	.1	*	*	.1	.1	.4	1.0	.0	.1	2.3	
	TOT %	.5	.1	.1	.1	.2	.2	.4	1.1	.0	.1	2.7	
5<10	PCP	.3	.1	*	.1	.1	.1	.2	.4	.0	*	1.3	
	NO PCP	6.0	.7	.4	.4	.7	.9	2.6	9.5	.0	.3	21.6	
	TOT %	6.3	.8	.4	.5	.9	1.1	2.8	9.9	.0	.3	22.9	
10+	PCP	.1	*	*	*	.1	*	.1	.1	.0	*	.5	
	NO PCP	23.2	2.5	.9	1.1	2.2	2.7	7.8	29.9	.0	1.3	71.6	
	TOT %	23.3	2.5	.9	1.1	2.2	2.7	7.9	30.0	.0	1.3	72.1	
	TOT OBS												55903
	TOT PCT	30.6	3.5	1.4	1.7	3.4	4.1	11.5	41.8	.0	1.8	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	*	*	*	*	*	*	*	*	.0	*	.1	
	4-10	.1	*	*	*	*	.1	.1	.1	.0		.5	
	11-21	.1	*	*	*	*	*	.1	.1	.0		.3	
	22+	*	*	.0	.0	*	*	*	*	.0		*	
	TOT %	.1	*	*	*	.1	.1	.2	.3	.0	*	.9	
1/2<1	0-3	*	*	*	*	*	*	*	*	.0	*	.1	
	4-10	.1	*	*	*	*	*	*	.1	.0		.3	
	11-21	.1	*	*	*	*	*	*	.1	.0		.4	
	22+	*	*	*	*	*	*	*	*	.0		.1	
	TOT %	.2	*	*	*	*	.1	.1	.3	.0	*	.9	
1<2	0-3	*	*	*	*	*	*	*	*	.0	*	.1	
	4-10	.1	*	*	*	*	*	.1	.1	.0		.4	
	11-21	.1	*	*	*	*	*	*	.2	.0		.4	
	22+	*	*	*	*	*	*	*	*	.0		.1	
	TOT %	.1	*	*	*	.1	.1	.2	.4	.0	*	.9	
2<5	0-3	*	*	*	*	*	*	*	*	.0	.1	.3	
	4-10	.2	.1	*	*	.1	.1	.3	.4	.0		1.2	
	11-21	.3	*	*	*	.1	.1	.1	.6	.0		1.3	
	22+	.1	*	*	*	*	*	*	.2	.0		.3	
	TOT %	.6	.1	.1	.1	.2	.2	.5	1.2	.0	.1	3.0	
5<10	0-3	.2	.1	.1	.1	*	.1	.2	.2	.0	.3	1.2	
	4-10	1.6	.3	.2	.2	.4	.6	1.3	2.4	.0		7.0	
	11-21	3.2	.3	.1	.1	.4	.3	1.1	5.4	.0		11.0	
	22+	1.3	.1	*	*	.1	.1	.2	1.8	.0		3.5	
	TOT %	6.2	.8	.4	.5	.9	1.0	2.8	9.8	.0	.3	22.7	
10+	0-3	.4	.1	.1	.1	.2	.2	.4	.5	.0	1.3	3.5	
	4-10	5.5	1.2	.6	.6	1.0	1.4	3.7	7.5	.0		21.6	
	11-21	12.8	1.0	.2	.3	.9	1.0	3.1	16.3	.0		35.6	
	22+	4.4	.2	*	*	.1	.1	.6	5.5	.0		11.0	
	TOT %	23.2	2.5	.9	1.1	2.2	2.7	7.8	29.8	.0	1.3	71.6	
	TOT OBS												57196
	TOT PCT	30.5	3.5	1.4	1.7	3.4	4.1	11.5	41.9	.0	1.8	100.0	

ANNUAL

PERIOD: (PRIMARY) 1944-1976
(OVER-ALL) 1854-1976

AREA 0033 SANTA ROSA IS, SW
32.0N 122.2W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00&03	1.1	.4	2.3	8.3	21.2	16.2	3.1	.5	.4	.5	54.0	46.0	10485
06&09	1.4	.4	1.9	6.9	19.1	14.9	1.8	.3	.4	.5	47.6	52.4	9404
12&15	1.8	.5	2.0	8.1	21.6	16.5	2.1	.5	.4	.4	53.8	46.2	9594
18&21	1.4	.4	2.4	9.0	22.1	17.7	3.1	.6	.5	.5	57.7	42.3	10573
TOT													40056
PCT	1.4	.4	2.2	8.1	21.1	16.3	2.6	.5	.4	.5	53.5	46.5	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00&03	1.0	.9	1.0	3.1	22.0	72.0	15105
06&09	.9	.7	.6	2.4	23.5	72.0	12110
12&15	1.1	1.1	1.2	3.6	25.0	68.0	14691
18&21	.8	.6	.9	2.9	20.4	74.3	15622
TOT							57528
PCT	.9	.9	.9	3.0	22.7	71.6	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET, NH >4/8), BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	10^0+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	1.1	4.1	13.5	42.0	44.4	10234
06&09	1.4	3.9	12.0	36.8	51.2	9272
12&15	1.8	4.6	14.2	41.1	44.7	9398
18&21	1.4	4.4	14.5	44.9	40.6	10309
TOT						39213
PCT	1.4	4.2	13.6	41.3	45.1	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
80/84	*	.0	*	*	*	*	.0	.0		*
75/79	.0	*	*	*	*	*	*	*		.2
70/74	.0	*	*	.1	.4	.5	.3	.1		1.4
65/69	*	*	.1	.3	1.2	3.6	4.3	1.9		11.3
60/64	.0	*	.1	.6	3.3	10.3	17.8	7.9		40.0
55/59	.0	*	.1	.7	3.4	9.8	15.7	8.3		38.1
50/54	.0	*	.1	.3	1.4	1.9	3.6	1.7		8.9
45/49	.0	.0	*	*	*	*	*	*		.2
40/44	.0	.0	.0	.0	*	*	*	.0		*
TOTAL									43601	100.0
PCT	*	*	.4	2.1	9.7	26.2	41.7	19.9		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

TEMP F	N	NE	E	SE	S	SW	W	NW	VAR	CALM
80/84	*	*	.0	.0	.0	.0	*	*	.0	.0
75/79	.1	*	*	*	.0	*	*	.1	.0	*
70/74	.5	.1	*	*	*	.1	.2	.4	.0	*
65/69	3.5	.4	.2	.2	.4	.6	1.4	4.3	.0	.3
60/64	11.5	1.2	.6	.7	1.6	1.8	4.9	16.9	.0	.8
55/59	11.1	1.4	.5	.6	1.2	1.4	4.4	17.0	.0	.5
50/54	2.5	.3	.1	.1	.1	.2	1.0	4.4	.0	.1
45/49	.1	*	*	*	*	*	*	.1	.0	*
40/44	.0	.0	.0	.0	*	.0	.0	*	.0	.0
TOTAL PCT	29.3	3.4	1.4	1.7	3.3	4.0	11.9	43.2	.0	1.7

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00&03	81	70	67	61	56	54	42	60.8	15219
06&09	79	66	63	59	55	53	45	59.1	12200
12&15	82	69	63	59	54	52	43	58.7	14879
18&21	80	70	67	61	56	53	41	60.8	16223
TOT	82	69	66	60	55	53	41	59.9	58521

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00&03	.0	2.6	11.6	29.4	40.0	16.3	80	11647
06&09	.0	1.7	7.5	22.0	45.5	23.3	83	9130
12&15	*	1.9	6.6	21.8	43.7	25.9	84	11027
18&21	*	3.3	12.3	30.2	38.8	15.4	80	12032
TOT	2	1039	4237	11486	18350	8702	82	43836

PERIOD: (PRIMARY) 1944-1974
(OVER-ALL) 1854-1974

AREA 0033 SANTA ROSA IS. SW
32.6N 122.2W

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	41 44	45 48	49 52	53 56	57 60	61 64	65 68	69 72	73 76	77 80	81 84	TOT	W FOG	WO FOG
20/22	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	.0	2	.0	*
17/19	.0	.0	.0	.0	.0	.0	*	*	*	*	*	15	.0	*
14/16	.0	.0	.0	.0	.0	*	*	*	*	*	.0	43	*	.1
11/13	.0	.0	.0	*	*	*	.1	.1	.1	*	.0	150	*	.3
9/10	.0	.0	.0	.0	*	.1	.2	.2	*	*	.0	323	*	.6
7/8	.0	.0	.0	*	.1	.4	.6	.3	.1	*	.0	775	.1	1.4
6	.0	.0	.0	*	.2	.4	.4	.2	*	.0	.0	660	*	1.2
5	.0	*	*	.1	.4	.7	.7	.2	*	*	*	1145	.1	2.1
4	.0	.0	*	.1	.8	1.5	.8	.2	*	*	.0	1798	.1	3.3
3	.0	.0	*	.2	1.1	1.6	1.1	.2	*	.0	.0	2240	.1	4.1
2	.0	.0	*	.6	2.4	3.1	1.3	.2	*	*	.0	4012	.3	7.3
1	.0	.0	*	.9	3.2	3.6	1.4	.2	*	.0	.0	4904	.3	8.9
0	*	*	.1	2.1	5.7	4.9	1.4	.1	*	.0	.0	7591	.6	13.7
-1	.0	.0	.2	2.4	5.0	4.1	1.1	*	*	*	.0	6791	.5	12.3
-2	.0	*	.3	3.1	5.5	3.7	.6	*	.0	.0	.0	7025	.5	12.8
-3	.0	.0	.3	2.5	4.1	2.5	.5	*	.0	.0	.0	5248	.4	9.5
-4	.0	*	.5	2.5	3.1	1.7	.2	*	.0	.0	.0	4218	.3	7.7
-5	*	*	.3	1.6	1.7	1.0	.2	*	.0	.0	.0	2550	.2	4.6
-6	.0	*	.3	1.0	.9	.6	*	*	.0	.0	.0	1477	.1	2.7
-7/-8	.0	*	.3	.8	.8	.5	*	*	.0	.0	.0	1307	.1	2.4
-9/-10	.0	*	.1	.3	.2	.1	*	*	.0	.0	.0	402	*	.7
-11/-13	*	*	.1	.1	.1	*	*	.0	.0	.0	.0	139	*	.3
-14/-16	*	*	*	*	*	*	.0	.0	.0	.0	.0	35	*	.1
-17/-19	.0	*	*	.0	.0	*	.0	.0	.0	.0	.0	3	.0	*
TOTAL												52873		
PCT	*	.2	2.5	18.3	35.3	30.7	10.7	1.9	.3	.1	*	100.0	3.8	96.2

PERIOD: (OVER-ALL) 1963-1974

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	.9	.1	.0	.0	.0	1.2
1-2	.2	3.4	2.8	.0	.0	.0	6.4
3-4	.1	2.1	6.1	.9	.0	.0	9.1
5-6	*	.7	4.1	1.3	*	.0	6.2
7	*	.2	2.5	1.3	.1	.0	4.1
8-9	*	*	.9	.8	*	.0	1.8
10-11	*	.0	.4	.6	.1	.0	1.1
12	.0	.0	.1	.3	.1	.0	.4
13-16	.0	*	*	.2	.1	.0	.3
17-19	.0	.0	*	*	*	.0	.1
20-22	.0	.0	*	*	.0	.0	*
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.5	7.3	17.0	5.5	.4	.0	30.7

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.3	*	.0	.0	.0	.4
1-2	.1	.8	.4	.0	.0	.0	1.2
3-4	*	.5	.6	*	.0	.0	1.2
5-6	*	.1	.3	*	*	.0	.4
7	.0	*	.2	.1	*	.0	.3
8-9	.0	.0	.1	.1	.0	.0	.1
10-11	.0	*	*	*	.0	.0	*
12	.0	*	*	*	*	.0	*
13-16	.0	.0	*	.0	*	.0	*
17-19	.0	.0	.0	*	.0	.0	*
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	1.8	1.6	.3	*	.0	3.8

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.3	*	.0	.0	.0	.3
1-2	*	.5	.1	.0	.0	.0	.6
3-4	*	.1	.1	.0	.0	.0	.3
5-6	*	*	*	.0	.0	.0	.1
7	.0	*	*	*	.0	.0	.1
8-9	.0	.0	*	*	.0	.0	*
10-11	.0	.0	.0	*	.0	.0	*
12	.0	.0	.0	*	.0	.0	*
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	.9	.3	*	.0	.0	1.4

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.2	.0	.0	.0	.0	.3
1-2	*	.5	.2	.0	.0	.0	.7
3-4	*	.2	.3	*	.0	.0	.5
5-6	*	*	.1	*	.0	.0	.1
7	.0	*	*	*	.0	.0	*
8-9	.0	.0	*	*	.0	.0	*
10-11	.0	.0	.0	*	*	.0	*
12	.0	.0	.0	*	.0	.0	*
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	*	.0	.0	.0	.0	*
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.1	1.0	.5	.1	*	.0	1.7

PERIOD: (OVER-ALL) 1963-1974

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TABLE 18 (CONT)

AREA 0033 SANTA ROSA IS. SW
32.0N 122.2W

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

	S							SW						
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.4	*	.0	.0	.0	.4	.1	.5	*	.0	.0	.0	.6
1-2	.1	.7	.4	.0	.0	.0	1.1	.1	.9	.4	.0	.0	.0	1.4
3-4	*	.3	.5	.1	.0	.0	.9	*	.3	.6	.1	.0	.0	1.0
5-6	*	.1	.3	.1	.0	.0	.4	*	.1	.3	*	.0	.0	.5
7	.0	*	.1	*	*	.0	.1	.0	*	.1	*	.0	.0	.1
8-9	.0	*	.1	*	.0	.0	.1	.0	*	*	*	.0	.0	.1
10-11	.0	.0	*	*	.0	.0	*	.0	.0	*	*	*	.0	*
12	.0	.0	.0	*	.0	.0	*	.0	.0	.0	*	.0	.0	*
13-16	.0	*	.0	.0	.0	.0	*	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	1.5	1.3	.3	*	.0	3.3	.2	1.9	1.5	.2	*	.0	3.8

	W							NW						TOTAL
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	PCT
<1	.3	.8	*	.0	.0	.0	1.1	.2	1.3	.1	.0	.0	.0	1.6	
1-2	.2	2.3	1.2	.0	.0	.0	3.7	.3	5.0	4.5	.0	.0	.0	9.8	
3-4	*	1.2	1.4	.2	.0	.0	2.8	.1	3.2	8.7	1.4	.0	.0	13.5	
5-6	*	.3	.9	.1	*	.0	1.4	*	.9	6.0	1.6	*	.0	8.6	
7	*	.1	.4	.1	.0	.0	.7	.0	.3	3.1	1.7	.1	.0	5.3	
8-9	.0	*	.2	.1	.0	.0	.4	.0	.1	1.2	1.1	.1	.0	2.5	
10-11	.0	.0	*	.1	*	.0	.1	.0	.0	.3	.7	.1	.0	1.1	
12	.0	.0	*	*	*	.0	.1	.0	.0	.1	.3	.1	.0	.5	
13-16	.0	.0	*	*	.0	.0	*	.0	*	.1	.2	.1	*	.5	
17-19	.0	.0	.0	*	*	.0	*	.0	.0	.0	*	*	.0	.1	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	*	.0	.0	*	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.5	4.8	4.1	.8	*	.0	10.3	.6	10.8	24.2	7.2	.6	*	43.4	98.3

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	2.7	4.7	.2	.0	.0	.0	7.6	
1-2	1.0	14.0	9.9	.0	.0	.0	24.9	
3-4	.3	8.1	18.3	2.7	.0	.0	29.5	
5-6	.1	2.3	11.9	3.3	.1	.0	17.7	
7	*	.7	6.4	3.4	.2	.0	10.7	
8-9	*	.2	2.5	2.2	.1	.0	5.0	
10-11	*	*	.8	1.4	.2	.0	2.4	
12	.0	*	.2	.6	.1	.0	1.0	
13-16	.0	*	.2	.5	.2	*	.9	
17-19	.0	*	*	.1	.1	.0	.2	
20-22	.0	.0	*	*	.0	.0	*	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
								13780
TOT PCT	4.2	30.0	50.5	14.3	1.0	*	100.0	

PERIOD: (OVER-ALL) 1949-1979

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	1.1	9.4	13.3	6.3	3.3	1.4	.5	.1	.2	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	11937	4
6-7	.1	1.9	7.6	7.5	6.0	3.5	1.6	.8	.5	.1	*	*	.0	.0	.0	.0	.0	.0	.0	9884	6
8-9	*	.9	3.3	3.4	4.1	2.6	1.7	.9	.6	.1	.1	*	*	.0	.0	.0	.0	.0	.0	5928	7
10-11	.0	.6	1.2	1.1	1.6	1.4	.8	.6	.5	.1	*	*	.0	.0	.0	.0	.0	.0	.0	2693	7
12-13	.0	.0	.6	.4	.5	.5	.4	.3	.3	.1	*	*	.0	.0	.0	.0	.0	.0	.0	991	8
>13	.0	.0	.0	.1	.2	.2	.2	.1	.2	*	*	*	.0	.0	.0	.0	.0	.0	.0	352	10
INDET	2.3	1.0	.7	.5	.3	.2	.1	*	*	*	*	.0	.0	.0	.0	.0	.0	.0	.0	1694	2
TOTAL																				33479	5
PCT	3.5	13.8	26.7	19.3	16.0	9.7	5.4	2.7	2.2	.5	.2	*	*	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1944-1974
(OVER-ALL) 1854-1974

AREA 0033 SANTA ROSA IS. SW
32.0N 122.2W

TABLE 20

PERCENT FREQUENCY OF OCCURRENCE OF SEA TEMP (DEG F) BY MONTH

SEA TMP DEG F	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN	PCT
96+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
95/96	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
93/94	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
91/92	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
89/90	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
87/88	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
85/86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
83/84	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
81/82	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	*
79/80	.0	.0	.0	.0	.0	.0	.0	*	.1	*	.0	.0	6	*
77/78	.0	.0	.0	.0	.0	.0	.0	.1	.1	.1	*	.0	10	*
75/76	.0	.0	.0	.0	.0	.0	*	.1	.3	*	*	.0	24	*
73/74	.0	.0	.0	.0	*	*	.1	.1	.5	.2	*	*	51	.1
71/72	.0	*	*	.1	*	.3	.2	.8	1.1	1.5	.2	*	202	.4
69/70	*	.2	.1	.2	.2	1.8	1.4	2.7	6.2	5.5	1.0	.3	904	1.6
67/68	.2	.2	.1	.1	.2	2.9	5.4	8.4	21.1	10.7	3.5	.9	2473	4.5
65/66	.7	.5	.4	.6	1.1	4.7	13.4	21.3	24.6	24.5	10.3	3.1	4827	8.7
63/64	5.3	2.9	1.9	3.7	6.9	16.9	22.5	30.7	26.9	32.3	25.1	13.5	8583	15.5
61/62	12.3	9.9	9.7	9.5	18.2	21.1	28.2	22.1	11.8	16.5	30.9	28.6	9940	18.0
59/60	27.9	26.5	23.8	28.5	26.3	27.8	19.4	9.4	5.5	6.9	18.9	25.5	11357	20.5
57/58	28.2	32.5	28.8	27.2	23.8	14.9	6.3	3.0	1.4	1.4	6.8	17.7	8955	16.2
55/56	17.2	18.4	23.1	16.6	15.5	5.9	2.1	.9	.3	.2	2.3	7.5	5200	9.4
53/54	6.5	6.5	9.0	9.2	6.4	2.3	.7	.3	.1	*	.6	1.9	2064	3.7
51/52	1.1	1.6	2.4	3.2	1.0	.9	.2	.1	*	.0	.3	.6	539	1.0
49/50	.3	.4	.5	1.1	.2	.4	*	*	*	.0	*	.1	147	.3
47/48	.1	.1	.1	*	.0	*	.0	.0	.0	.0	*	.1	25	*
45/46	.1	*	*	*	.0	.0	.0	.0	.0	.0	.0	*	10	*
43/44	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	*
41/42	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	*
39/40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
37/38	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
35/36	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
33/34	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
31/32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
29/30	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
27/28	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
<27	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
TOTAL	5257	4243	5061	4674	4872	4152	4579	4328	4640	4847	4599	4070	55322	100.0
MEAN	58.3	58.0	57.6	57.9	58.7	60.6	62.2	63.5	64.9	64.3	61.9	60.1	60.6	

TABLE 21

PRESSURE (MB)

AVERAGE BY HOUR (GMT)

MO	0000	0300	0600	0900	1200	1500	1800	2100	MEAN	TOTAL OBS
JAN	1020	1020	1021	1020	1020	1020	1022	1021	1020	5083
FEB	1019	1019	1020	1020	1019	1019	1021	1020	1020	4248
MAR	1019	1018	1020	1019	1018	1019	1020	1019	1019	5078
APR	1018	1017	1018	1018	1017	1018	1019	1019	1018	4733
MAY	1018	1017	1018	1018	1017	1018	1019	1018	1018	4858
JUN	1016	1015	1016	1016	1015	1016	1017	1016	1016	4407
JUL	1016	1015	1016	1015	1015	1016	1017	1016	1016	4634
AUG	1015	1015	1016	1015	1015	1016	1017	1016	1016	4482
SEP	1014	1015	1014	1014	1014	1015	1016	1016	1015	4535
OCT	1016	1016	1016	1016	1016	1017	1018	1017	1016	4860
NOV	1018	1018	1019	1019	1018	1019	1020	1019	1019	4489
DEC	1019	1019	1020	1019	1019	1019	1021	1020	1020	4031
ANN	1017	1017	1018	1017	1017	1018	1019	1018	1018	55438
OBS	10242	4069	8615	3131	9085	4847	10068	5381		

PERCENTILES

MO	MIN	1%	5%	25%	50%	75%	95%	99%	MAX
JAN	998	1007	1013	1018	1021	1023	1027	1030	1034
FEB	998	1005	1011	1017	1020	1023	1027	1030	1036
MAR	996	1006	1011	1017	1020	1022	1026	1028	1033
APR	994	1008	1012	1016	1018	1021	1024	1027	1031
MAY	997	1009	1012	1016	1018	1020	1023	1026	1031
JUN	996	1008	1010	1014	1016	1018	1021	1023	1027
JUL	1001	1009	1011	1014	1016	1017	1020	1022	1030
AUG	1000	1008	1010	1014	1016	1018	1021	1023	1027
SEP	999	1006	1009	1013	1015	1017	1019	1022	1030
OCT	1001	1007	1011	1014	1017	1019	1021	1023	1028
NOV	1001	1007	1011	1016	1019	1021	1025	1028	1032
DEC	996	1005	1011	1017	1020	1023	1027	1029	1033

JANUARY

PERIOD: (PRIMARY) 1936-1974
(OVER-ALL) 1863-1974

AREA 0034 POINT HUGU NW
34.5N 121.1W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA				
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG W/O PCPN	FOG W/ PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	1.1	.3	.6	.0	.0	.0	.1	1.8	.9	.0	3.3	.1	3.6		.0	90.3
NE	2.8	.7	2.9	.0	.0	.0	.0	5.0	.5	.0	3.7	.0	8.3		.0	82.5
E	5.7	.9	4.8	.0	.0	.0	.0	9.6	1.2	.0	5.5	.0	6.8		.0	76.9
SE	9.3	2.7	3.7	.0	.0	.0	.0	14.2	1.7	.0	8.7	.0	5.5		.0	69.9
S	10.5	3.4	5.5	.0	.0	.0	.0	18.5	1.6	.0	12.7	.2	4.3		.0	62.7
SW	7.6	3.1	9.2	.0	.0	.0	.0	18.9	1.7	.8	10.1	1.0	4.0		.0	63.4
W	1.8	1.9	1.4	.0	.0	.0	.0	4.3	1.3	.0	6.5	.0	2.8		.0	85.1
NW	1.3	.6	1.3	.0	.0	.0	.0	2.4	.7	.1	4.3	.0	3.9		.1	88.4
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	.0
CALM	1.9	1.2	2.5	.0	.0	.0	.0	4.9	.6	.0	8.0	.6	9.9		.0	75.9
TOT PCT	3.5	1.3	2.6	.0	.0	.0	*	6.5	1.0	.1	5.9	.1	4.8		*	81.6
TOT OBS:	3884															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA				
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG W/O PCPN	FOG W/ PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00&03	2.7	1.6	2.1	.0	.0	.0	.0	5.3	.8	.1	4.8	.1	6.1		.0	82.8
06&09	4.0	1.1	2.8	.0	.0	.0	.1	7.5	2.4	.3	4.7	.1	2.8		.0	82.2
12&15	4.0	1.2	2.9	.0	.0	.0	.0	7.5	1.0	.0	6.9	.1	3.0		.0	81.4
18&21	3.3	1.2	2.9	.0	.0	.0	.0	6.2	.5	.0	6.7	.2	5.9		.1	80.5
TOT PCT	3.4	1.3	2.7	.0	.0	.0	*	6.5	1.0	.1	5.9	.1	4.7		*	81.6
TOT OBS:	3915															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	2.0	7.7	8.0	1.8	.1	.0		19.6	11.9	18.0	18.3	24.0	19.5	22.7	19.4	19.5	16.9
NE	2.5	5.1	2.0	.3	*	.0		10.0	7.7	4.5	6.7	9.3	7.6	10.7	16.7	17.3	6.3
E	1.4	3.6	1.5	.2	*	.0		6.7	8.1	3.6	5.8	7.0	5.0	5.0	9.6	10.4	6.6
SE	1.0	3.5	1.4	.6	.1	.0		6.6	10.2	6.2	6.3	5.7	6.4	5.2	8.8	6.4	7.6
S	1.4	3.2	2.1	.7	*	.0		7.5	10.4	9.4	5.8	6.9	6.3	7.0	5.6	6.1	10.3
SW	.9	3.2	1.7	.4	*	.0		6.2	9.8	7.4	6.0	4.7	6.3	6.3	5.4	4.3	7.5
W	1.6	6.6	4.3	.5	.1	.0		13.0	9.9	19.4	14.5	11.5	10.5	10.4	6.9	9.9	17.2
NW	1.6	9.9	11.4	2.5	.1	.0		25.3	12.5	28.1	30.8	28.1	31.5	24.7	22.9	18.1	24.7
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	5.1							5.1	.0	3.5	3.8	2.9	6.9	8.0	4.7	8.0	3.0
TOT OBS	758	1868	1415	305	18	0	4364		10.2	768	338	454	332	564	494	710	704
TOT PCT	17.4	42.8	32.4	7.0	.4	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	5.1	9.5	4.6	.4	.0		19.6	11.9	18.1	22.1	21.2	18.2
NE	5.7	3.3	.9	.1	.0		10.0	7.7	5.2	8.6	13.5	11.8
E	3.3	2.8	.5	.1	.0		6.7	8.1	4.2	6.2	7.1	8.5
SE	2.5	3.1	.7	.3	*		6.6	10.2	6.2	6.0	6.9	7.0
S	3.0	3.0	1.2	.3	.0		7.5	10.4	8.3	6.6	6.4	8.2
SW	2.4	2.9	.8	.1	*		6.2	9.8	7.5	5.4	5.9	5.9
W	4.5	6.6	1.9	.1	*		13.0	9.9	17.9	11.1	8.7	13.6
NW	5.3	13.4	5.9	.6	*		25.3	12.5	28.9	29.5	23.9	21.4
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	5.1						5.1	.0	3.6	4.6	6.4	5.5
TOT OBS	1607	1946	717	91	3	4364		10.2	1106	786	1058	1414
TOT PCT	36.8	44.6	16.4	2.1	.1		100.0		100.0	100.0	100.0	100.0

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PERIOD: (PRIMARY) 1936-1974
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AREA 0034 POINT MUGU NW
34.5N 121.1W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	3.6	11.9	39.4	35.9	8.5	.6	.0	10.9	100.0	1106
06&09	4.6	11.6	40.1	34.1	9.3	.4	.0	10.9	100.0	786
12&15	6.4	12.1	45.3	30.1	5.9	.3	.0	9.7	100.0	1058
18&21	5.5	13.1	45.1	30.6	5.4	.4	.0	9.5	100.0	1414
TOT	222	536	1868	1415	305	18	0	10.2		4364
PCT	5.1	12.3	42.8	32.4	7.0	.4	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	11.9	3.3	4.9	3.0		3.1
NE	7.1	1.4	1.6	1.8		2.7
E	3.0	.6	.9	1.1		3.1
SE	1.3	.8	1.5	2.2		5.3
S	.9	.5	2.2	3.4		6.2
SW	1.4	.4	1.5	1.8		5.1
W	4.7	1.9	3.2	2.1		3.9
NW	12.0	3.0	5.6	3.3		3.3
VAR	.0	.0	.0	.0		.0
CALM	2.9	.5	1.2	1.1		3.4
TOT OBS	881	241	440	388	1950	3.7
TOT PCT	45.2	12.4	22.6	19.9	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.2	.1	.5	.9	2.2	1.0	.3	.1	*	.3	17.5	
NE	.1	.0	.1	.1	.4	.8	.3	.1	.1	.2	9.7	
E	.0	.0	.1	.1	.2	.5	.1	.2	.0	.3	4.3	
SE	.2	.1	.1	.5	1.1	.3	.1	.2	*	.2	3.1	
S	.5	.0	.2	1.0	1.5	.7	.2	.1	.2	*	2.4	
SW	.2	.0	.2	.3	.9	.7	.1	.0	.1	*	2.8	
W	.3	.0	.1	.4	.9	.6	.2	.0	.4	.2	8.8	
NW	.4	*	.4	1.2	2.1	.9	.4	.1	.1	.4	17.8	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.1	.1	.0	.1	.6	.4	.0	.0	.1	.2	4.1	
TOT OBS	39	6	31	90	192	117	33	13	20	36	1373	1950
TOT PCT	2.0	.3	1.6	4.6	9.8	6.0	1.7	.7	1.0	1.8	70.4	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM) * OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >50YD	* OR >0
* OR >6500	1.6	2.7	2.8	2.8	2.9	2.9	2.9	2.9
* OR >5000	1.9	3.3	3.5	3.5	3.5	3.5	3.5	3.5
* OR >3500	3.0	4.9	5.1	5.1	5.2	5.2	5.2	5.2
* OR >2000	5.5	10.4	11.0	11.0	11.1	11.1	11.1	11.1
* OR >1000	11.8	19.3	20.6	20.9	21.0	21.0	21.0	21.0
* OR >600	14.4	23.4	24.8	25.3	25.5	25.5	25.6	25.6
* OR >300	15.2	24.6	26.3	26.8	27.1	27.1	27.1	27.1
* OR >150	15.3	24.8	26.6	27.1	27.3	27.4	27.4	27.4
* OR > 0	15.6	25.3	27.4	28.1	28.6	29.0	29.4	29.4
TOTAL	306	496	539	552	561	570	578	578

TOTAL NUMBER OF OBS: 1964 PCT FREQ NH <5/8: 70.6

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
39.9	9.2	9.7	6.1	4.7	4.1	6.6	5.2	13.0 1.4	2039

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PERIOD: (PRIMARY) 1936-1974
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AREA 0034 POINT MUGU NI
34.5N 121.1W

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	PCP	*	*	.0	.0	.1	.1	*	*	.0	.0	.3	
<1/2	NO PCP	.1	*	*	.1	.2	.1	.1	.2	.0	.1	.9	
	TOT %	.1	*	*	.1	.3	.2	.1	.3	.0	.1	1.2	
	PCP	.0	.0	*	.1	*	*	*	.0	.0	.0	.2	
1/2<1	NO PCP	.1	*	.1	.1	.2	.3	.2	.1	.0	*	1.1	
	TOT %	.1	*	.1	.2	.2	.3	.2	.1	.0	*	1.3	
	PCP	*	.1	.1	.1	.1	.2	*	.1	.0	.1	.9	
1<2	NO PCP	.1	.2	.1	.2	.2	.1	.1	.2	.0	.1	1.2	
	TOT %	.1	.3	.2	.3	.3	.3	.2	.3	.0	.2	2.1	
	PCP	*	.3	.3	.3	.5	.2	.1	.1	.0	*	1.8	
2<5	NO PCP	.3	.4	.4	.3	.3	.3	.6	.6	.0	.2	3.5	
	TOT %	.4	.7	.7	.6	.8	.5	.6	.8	.0	.2	5.3	
	PCP	.2	.1	.1	.3	.6	.5	.3	.2	.0	.1	2.5	
5<10	NO PCP	4.9	3.2	1.6	1.5	1.9	1.5	2.8	5.8	.0	.9	24.1	
	TOT %	5.1	3.3	1.8	1.8	2.5	2.0	3.1	6.0	.0	1.0	26.6	
	PCP	*	.1	.1	.1	.1	.2	.1	.1	.0	.0	.8	
10+	NO PCP	13.8	6.2	4.2	3.5	3.5	2.9	8.5	17.3	.0	2.8	62.6	
	TOT %	13.8	6.3	4.3	3.6	3.7	3.0	8.6	17.5	.0	2.8	63.4	
	TOT OBS												3881
	TOT PCT	19.7	10.5	7.0	6.6	7.9	6.3	12.0	24.9	.0	4.2	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	0-3	.0	.0	.0	.0	*	.0	.0	.0	.0	.1	.2	
<1/2	4-10	.1	*	*	.1	.1	.1	.1	.1	.0		.8	
	11-21	.1	*	.0	.0	.1	*	.0	.2	.0		.4	
	22+	.0	.0	.0	.0	*	.0	.0	.0	.0		*	
	TOT %	.2	*	*	.1	.3	.2	.1	.3	.0	.1	1.4	
	0-3	*	*	*	.0	.1	.1	.1	*	.0	*	.3	
1/2<1	4-10	.0	*	*	.1	.1	.1	.1	.1	.0		.6	
	11-21	*	.0	*	*	*	*	*	*	.0		.2	
	22+	.1	.0	.0	.0	*	*	*	.0	.0		.2	
	TOT %	.1	*	.1	.2	.2	.3	.2	.1	.0	*	1.2	
	0-3	*	.1	*	*	.0	*	.1	*	.0	.2	.5	
1<2	4-10	.1	.1	.1	.2	.2	.1	.1	.2	.0		1.1	
	11-21	*	.0	.1	.1	.1	.1	.0	*	.0		.4	
	22+	.0	.0	.0	*	.1	.1	*	*	.0		.2	
	TOT %	.2	.3	.2	.3	.3	.3	.2	.3	.0	.2	2.3	
	0-3	.2	.3	.3	.1	*	*	.3	.1	.0	.2	1.5	
2<5	4-10	.2	.3	.3	.2	.4	.3	.4	.3	.0		2.4	
	11-21	.1	.1	.1	.2	.3	.1	.1	.4	.0		1.5	
	22+	.1	*	.0	.2	.1	.1	.0	.1	.0		.5	
	TOT %	.5	.6	.7	.6	.9	.6	.8	.9	.0	.2	5.8	
	0-3	.7	1.0	.3	.3	.7	.3	.4	.6	.0	1.0	5.3	
5<10	4-10	1.6	1.5	.8	.7	.9	.9	1.3	1.8	.0		9.6	
	11-21	1.9	.5	.5	.4	.4	.7	1.1	2.5	.0		8.1	
	22+	.5	.1	*	.2	.4	.1	.1	.9	.0		2.3	
	TOT %	4.8	3.1	1.6	1.7	2.4	1.9	3.0	5.8	.0	1.0	25.3	
	0-3	1.1	1.1	.7	.6	.6	.4	.8	.9	.0	3.3	9.5	
10+	4-10	5.6	3.3	2.4	2.1	1.6	1.6	4.6	7.0	.0		28.3	
	11-21	5.9	1.5	.9	.7	1.2	.8	3.1	8.1	.0		22.1	
	22+	1.3	.3	.1	.3	.1	.2	.4	1.6	.0		4.2	
	TOT %	13.8	6.2	4.2	3.6	3.6	3.0	8.9	17.5	.0	3.3	64.0	
	TOT OBS												4181
	TOT PCT	19.6	10.2	6.8	6.5	7.6	6.3	13.2	24.9	.0	4.9	100.0	

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PERIOD: (PRIMARY) 1936-1974
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AREA 0034 POINT HUGU NW
34.5N 121.1W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00&03	2.7	.6	1.6	2.2	12.3	5.3	1.8	1.2	.6	2.0	30.1	69.9	511
06&09	1.1	.0	.7	4.6	8.1	6.1	2.0	.0	.4	2.0	24.9	75.1	458
12&15	2.5	.2	1.8	5.2	9.5	7.4	1.1	.9	.9	1.6	31.1	68.9	444
18&21	1.5	.3	2.0	6.0	8.9	5.1	1.7	.5	1.9	1.7	29.7	70.3	586
TOT	39	6	31	90	194	118	33	13	20	36	580	1419	1999
PCT	2.0	.3	1.6	4.5	9.7	5.9	1.7	.7	1.0	1.8	29.0	71.0	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00&03	1.3	1.2	1.5	5.3	25.0	65.7	1072
06&09	1.3	.9	1.4	4.6	27.5	64.3	767
12&15	1.8	2.0	2.4	5.4	27.8	60.6	1010
18&21	1.4	1.0	3.2	7.0	22.1	65.2	1364
TOT	61	54	95	243	1061	2699	4213
PCT	1.4	1.3	2.3	5.8	25.2	64.1	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET, NH >4/8), BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	3.0	5.4	10.3	22.6	67.1	496
06&09	1.1	2.2	9.8	17.5	72.7	451
12&15	2.5	4.8	12.0	20.2	67.8	441
18&21	1.6	4.9	15.1	17.2	67.7	576
TOT	40	86	235	379	1350	1964
PCT	2.0	4.4	12.0	19.3	68.7	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
79/79	*	*	.0	.0	.0	.0	.0	.0	2	.1
70/74	.4	.2	.1	.0	.0	.0	*	.0	19	.7
65/69	.4	.2	.3	.4	.2	.3	.1	.1	52	2.0
60/64	.3	.4	.5	1.2	2.3	2.7	2.5	.8	279	10.7
55/59	.1	.4	1.0	1.4	5.2	11.8	16.5	8.0	1154	44.4
50/54	.2	.5	1.2	2.1	6.0	7.2	11.3	6.1	899	34.6
45/49	.0	.3	.2	.7	1.1	1.2	1.3	.6	139	5.3
40/44	.0	*	.1	.2	.7	.3	.5	.2	50	1.9
35/39	.0	.0	.0	.1	*	.0	.1	.0	5	.2
30/34	.0	.0	.0	.0	.0	.0	*	.0	1	*
TOTAL	35	55	90	158	403	607	841	411	2600	100.0
PCT	1.3	2.1	3.5	6.1	15.5	23.3	32.3	15.8		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
*	.0	*	.0	.0	.0	.0	.0	.0	.0
.0	.3	.3	*	*	*	*	*	.0	*
.2	.6	.3	.0	.0	.1	.3	.4	.0	*
1.2	1.0	.9	1.0	1.4	1.0	1.8	1.9	.0	.5
7.3	3.0	2.5	3.9	4.5	3.1	6.6	11.6	.0	1.9
8.4	3.3	2.1	1.6	1.9	1.8	4.9	9.3	.0	1.3
1.3	1.7	.7	.2	*	*	.3	.9	.0	.2
.5	1.1	.3	*	.0	.0	*	*	.0	*
*	.1	.1	*	.0	.0	.0	.0	.0	.0
*	*	.0	.0	.0	.0	.0	.0	.0	.0
19.0	11.0	7.3	6.7	7.9	6.0	14.0	24.0	.0	4.0

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00&03	79	67	63	56	50	48	45	56.3	1107
06&09	72	65	61	54	47	43	40	54.2	790
12&15	70	63	59	54	43	40	34	53.3	1063
18&21	82	71	64	56	48	45	41	56.2	1418
TOT	82	68	62	55	48	42	34	55.1	4378

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00&03	.7	9.8	13.8	28.1	33.2	14.4	77	752
06&09	.5	7.3	11.6	23.2	38.7	18.7	80	439
12&15	1.0	8.4	16.9	17.8	34.8	21.1	78	574
18&21	2.6	17.6	18.2	22.8	26.6	12.2	72	852
TOT	35	304	407	609	847	415	76	2617

PERIOD: (PRIMARY) 1936-1974
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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	37 40	41 44	45 48	49 52	53 56	57 60	61 64	65 68	69 72	73 76	77 80	TOT	W FOG	WO FOG
17/19	.0	.0	.0	.0	.0	.0	.0	.0	*	.0	*	2	.0	.1
14/16	.0	.0	.0	.0	.0	.0	.0	*	*	*	.0	3	.0	.1
11/13	.0	.0	.0	.0	.0	.0	.1	*	.1	.0	.0	7	.0	.3
9/10	.0	.0	.0	.0	.0	.0	.3	.3	.0	.0	.0	17	.1	.6
7/8	.0	.0	.0	.0	.1	.2	.7	.3	.0	.0	.0	35	.1	1.2
6	.0	.0	.0	.0	.1	.3	.6	.1	*	.0	.0	29	*	1.0
5	.0	.0	.0	.1	.3	.6	1.0	.1	.0	.0	.0	54	*	2.0
4	.0	.0	.0	.3	.6	2.3	1.5	.1	.0	.0	.0	129	.4	4.4
3	.0	.0	.0	*	.3	2.1	.7	.0	.0	.0	.0	84	.1	3.0
2	.0	.0	.0	.1	2.9	4.5	1.0	.0	.0	.0	.0	232	1.1	7.4
1	.0	.0	.0	.3	3.3	4.5	.3	.0	.0	.0	.0	224	.6	7.7
0	.0	.0	.1	1.2	10.1	5.3	.4	.0	.0	.0	.0	462	.9	16.2
-1	.0	.0	.0	.7	6.9	2.2	.1	.0	.0	.0	.0	270	.8	9.2
-2	.0	.0	.3	2.8	8.8	2.8	.1	.0	*	.0	.0	403	.9	14.0
-3	.0	.0	.0	2.7	4.8	.7	.1	.0	.0	.0	.0	225	.3	8.1
-4	.0	*	.6	3.7	3.3	.6	*	.0	.0	.0	.0	225	.3	8.1
-5	.0	*	.4	2.0	1.7	.1	*	.0	.0	.0	.0	117	.2	4.1
-6	.0	.0	.3	1.3	1.1	.1	.0	.0	.0	.0	.0	75	.1	2.7
-7/-8	.0	*	.3	1.4	.6	*	*	.0	.0	.0	.0	64	.1	2.3
-9/-10	.0	.1	.4	.4	.2	.1	.0	.0	.0	.0	.0	35	.1	1.2
-11/-13	.0	.1	.1	.1	.1	.0	.0	.0	.0	.0	.0	11	.1	.3
-14/-16	*	.0	.0	*	.0	.0	.0	.0	.0	.0	.0	2	.0	.1
TOTAL	1	8	71	465	1223	718	185	26	6	1	1	2705	165	2540
PCT	*	.3	2.6	17.2	45.2	26.5	6.8	1.0	.2	*	*	100.0	6.1	93.9

PERIOD: (OVER-ALL) 1963-1974

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.4	1.2	.0	.0	.0	.0	1.6
1-2	.0	3.4	3.2	.0	.0	.0	6.7
3-4	.0	2.3	5.5	.3	.0	.0	8.0
5-6	.1	.4	3.0	.6	.0	.0	4.1
7	.0	.3	.9	.3	.0	.0	1.5
8-9	.0	.0	.3	.3	.0	.0	.5
10-11	.0	.0	.3	.3	.0	.0	.5
12	.0	.0	.1	.1	.0	.0	.2
13-16	.0	.0	.1	.7	.0	.0	.8
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.5	7.5	13.5	2.5	.0	.0	24.0

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.4	.3	.3	.0	.0	.0	1.1
1-2	.1	1.5	.4	.0	.0	.0	2.1
3-4	.1	.4	.9	.2	.0	.0	1.6
5-6	.0	.0	.5	*	.0	.0	.5
7	.0	.1	.2	.0	.0	.0	.3
8-9	.0	.0	.0	*	.0	.0	*
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.7	2.4	2.3	.3	.0	.0	5.7

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	.4	.0	.0	.0	.0	.7
1-2	.0	1.1	.5	.0	.0	.0	1.6
3-4	.0	.1	.1	.0	.0	.0	.3
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	1.7	.6	.0	.0	.0	2.6

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	.7	.0	.0	.0	.0	1.0
1-2	.2	1.1	.5	.0	.0	.0	1.8
3-4	.0	.3	1.1	.0	.0	.0	1.4
5-6	.0	.0	.2	.3	.0	.0	.5
7	.0	.0	.3	.1	.0	.0	.4
8-9	.0	*	.0	*	.0	.0	.1
10-11	.0	.0	.1	*	.0	.0	.2
12	.0	.0	.0	.0	.3	.0	.3
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.5	2.1	2.2	.5	.3	.0	5.7

PERIOD: (OVER-ALL) 1963-1974 JANUARY AREA 0034 POINT MUGU NM

TABLE 18 (CONT) 34.5N 121.1W

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

	S							SW						
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.4	.8	.0	.0	.0	.0	1.2	.0	.4	.0	.0	.0	.0	.4
1-2	.4	1.5	.5	.0	.0	.0	2.4	.0	1.6	.8	.0	.0	.0	2.4
3-4	.0	.6	1.5	.3	.0	.0	2.4	.0	.8	1.4	.1	.0	.0	2.4
5-6	.0	.1	.3	.3	.0	.0	.7	.0	.0	.3	*	.0	.0	.4
7	.0	.1	.1	.0	.0	.0	.3	.0	*	.1	*	.0	.0	.1
8-9	.0	.3	.1	.5	.0	.0	.9	.0	.0	.1	.3	.0	.0	.4
10-11	.0	.0	.0	.1	.0	.0	.1	.0	*	.0	.0	.0	.0	*
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.8	3.4	2.6	1.2	.0	.0	8.1	.0	2.9	2.8	.5	.0	.0	6.2

	W							NW							TOTAL
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	PCT
<1	.3	2.7	.1	.0	.0	.0	3.1	1.1	1.3	*	.0	.0	.0	2.4	
1-2	.3	2.6	1.9	.0	.0	.0	4.7	.5	5.3	4.4	.0	.0	.0	10.2	
3-4	.0	1.6	1.6	.0	.0	.0	3.2	.0	2.0	6.0	.4	.0	.0	8.4	
5-6	.1	.3	1.0	.1	.0	.0	1.5	*	.5	3.1	.7	.0	.0	4.3	
7	.0	.1	.4	.2	.0	.0	.7	.0	*	1.0	.4	.0	.0	1.5	
8-9	.0	.0	.3	.0	.0	.0	.3	.0	.0	.4	.6	.0	.0	1.0	
10-11	.0	.1	.0	.1	.0	.0	.2	.0	.0	.1	.4	.0	.0	.5	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	.5	.0	.0	.5	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.2	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.7	7.5	5.3	.4	.0	.0	13.8	1.6	9.1	15.1	3.2	.0	.0	29.1	95.0

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	8.4	7.8	.4	.0	.0	.0	16.7	
1-2	1.6	18.0	12.4	.0	.0	.0	32.0	
3-4	.1	8.1	18.0	1.3	.0	.0	27.6	
5-6	.3	1.3	8.3	2.0	.0	.0	11.9	
7	.0	.7	2.9	1.2	.0	.0	4.8	
8-9	.0	.3	1.3	1.7	.0	.0	3.3	
10-11	.0	.1	.6	.9	.0	.0	1.6	
12	.0	.0	.1	.6	.3	.0	1.0	
13-16	.0	.0	.1	.9	.0	.0	1.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
								688
TOT PCT	10.5	36.5	44.2	8.6	.3	.0	100.0	

PERIOD: (OVER-ALL) 1949-1974 TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	2.6	10.8	13.4	6.7	1.7	1.0	.4	.3	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	469	3
6-7	.0	2.0	5.5	7.5	4.4	1.8	.9	.7	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	295	5
8-9	.1	1.7	2.5	3.8	2.8	3.0	1.3	.7	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	209	6
10-11	.0	.6	1.0	1.2	1.7	1.4	.8	.6	.7	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	102	7
12-13	.0	.0	1.2	1.1	1.0	.2	.6	.2	.6	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	66	8
>13	.0	.0	.0	.4	.2	.2	.4	.0	.2	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	19	9
INDET	3.1	1.7	1.0	1.0	.5	.3	.1	.2	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	100	3
TOTAL	73	211	310	274	155	100	56	33	39	4	5	0	0	0	0	0	0	0	0	1260	5
PCT	5.8	16.7	24.6	21.7	12.3	7.9	4.4	2.6	3.1	.3	.4	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

FEBRUARY

PERIOD: (PRIMARY) 1938-1974
(OVER-ALL) 1869-1974

AREA 0034 POINT HUGU NW
34.5N 121.0W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA				
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	.9	.2	1.1	.0	.0	.0	.0	2.1	.2	.0	5.9	.5	5.0		.0	86.2
NE	2.4	.3	1.1	.0	.0	.0	.0	3.9	.4	.0	8.0	.0	9.2		.0	78.5
E	8.5	.2	4.9	.0	.0	.0	.0	11.0	.4	.0	7.6	.0	8.1		.4	72.5
SE	10.5	1.0	6.1	.0	.0	.0	.0	15.9	2.1	.0	10.5	.0	6.9		.0	64.5
S	7.9	1.6	5.5	.0	.0	.0	.0	13.9	1.5	.0	10.4	.0	10.2		.0	63.9
SW	3.5	.4	2.9	.0	.0	.0	.0	6.7	1.4	.0	11.8	.4	9.6		.0	70.1
W	1.1	1.0	1.9	.0	.0	.0	.0	4.0	.6	.0	7.0	.2	3.8		.0	84.3
NW	.6	.6	.9	.0	.0	.0	.0	2.0	.8	.0	5.2	.2	3.7		.1	87.9
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	.0
CALM	3.7	.0	.9	.0	.0	.0	.0	4.2	.5	.0	24.2	.5	16.7		.0	54.0
TOT PCT	2.9	.6	2.2	.0	.0	.0	.0	5.3	.8	.0	8.2	.2	6.5		.1	78.9
TOT OBS:	3843															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA				
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00&03	2.3	1.0	2.9	.0	.0	.0	.0	5.6	.7	.0	6.6	.3	6.2		.2	80.3
06&09	3.1	.3	1.7	.0	.0	.0	.0	4.8	.6	.0	7.3	.3	2.9		.0	84.1
12&15	3.9	.6	2.9	.0	.0	.0	.0	7.0	1.0	.0	8.9	.2	4.0		.0	79.0
18&21	2.6	.5	1.3	.0	.0	.0	.0	3.9	.8	.0	9.2	.2	11.2		.0	74.7
TOT PCT	2.9	.6	2.1	.0	.0	.0	.0	5.2	.8	.0	8.1	.2	6.6		.1	79.0
TOT OBS:	3888															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	2.2	6.6	6.6	2.4	.3	.0		18.0	12.4	15.1	15.9	20.5	18.9	23.6	18.2	19.8	12.5
NE	2.0	4.1	1.4	.1	*	.0		7.7	7.1	1.6	3.3	8.0	9.3	10.9	14.3	11.6	3.6
E	.9	3.6	1.3	.3	*	.0		6.1	8.5	3.1	4.9	4.5	6.4	4.6	9.9	9.0	6.8
SE	.8	3.8	1.9	.5	.1	.0		7.0	10.3	5.0	5.3	5.8	9.8	5.7	7.6	6.6	11.0
S	1.0	3.3	2.5	.6	.1	.0		7.4	11.2	7.4	7.9	9.0	4.0	6.6	5.5	7.1	10.3
SW	.9	3.9	1.8	.2	.0	.0		6.7	9.1	7.1	5.3	4.5	6.4	3.5	6.2	7.2	12.0
W	1.3	6.0	4.0	.8	*	.0		12.1	10.4	20.6	14.5	11.4	10.8	10.4	8.2	7.4	12.2
NW	1.7	10.3	12.4	4.3	.4	.0		29.0	13.6	35.0	27.3	31.6	27.8	27.6	24.3	22.4	28.4
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	5.9							5.9	.0	5.1	5.3	4.7	6.6	7.2	5.9	8.9	3.1
TOT OBS	703	1761	1345	387	39	0	4235		10.7	708	318	529	303	582	401	699	635
TOT PCT	16.6	41.6	31.8	9.1	.9	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	5.5	7.4	4.2	.9	*		18.0	12.4	15.4	19.9	21.2	16.3
NE	4.6	2.5	.6	.1	.0		7.7	7.1	2.2	8.5	12.4	7.8
E	3.0	2.4	.6	.1	.0		6.1	8.5	3.7	5.2	6.9	7.9
SE	2.5	3.4	.9	.2	*		7.0	10.3	5.1	7.2	6.5	8.7
S	2.5	3.2	1.5	.2	*		7.4	11.2	7.3	7.2	6.1	8.6
SW	2.6	3.4	.7	*	.0		6.7	9.1	6.5	5.2	4.7	9.5
W	4.3	5.7	1.9	.2	*		12.1	10.4	18.7	11.2	9.4	9.7
NW	5.6	14.1	7.6	1.6	*		29.0	13.6	35.7	30.2	26.1	25.3
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	5.9						5.9	.0	5.2	5.4	6.6	6.1
TOT OBS	1546	1782	761	140	6	4235		10.7	1026	832	1043	1334
TOT PCT	36.5	42.1	18.0	3.3	.1		100.0		100.0	100.0	100.0	100.0

FEBRUARY

PERIOD: (PRIMARY) 1938-1974
(OVER-ALL) 1869-1974

AREA 0034 POINT HUGU NW
34.5N 121.0W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	5.2	10.4	38.3	34.1	10.7	1.3	.0	11.5	100.0	1026
06&09	5.4	10.2	40.5	32.9	10.5	.5	.0	11.0	100.0	832
12&15	6.6	11.5	43.0	28.9	9.0	1.1	.0	10.3	100.0	1043
18&21	6.1	10.6	43.7	31.5	7.2	.8	.0	10.2	100.0	1334
TOT	249	454	1761	1345	387	39	0	10.7		4235
PCT	5.9	10.7	41.6	31.8	9.1	.9	.C		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	9.7	2.3	4.3	3.4		3.3
NE	7.0	.4	.8	1.6		2.0
E	3.2	.5	.8	1.3		3.0
SE	.9	.3	1.4	2.4		5.9
S	1.6	.3	1.7	3.5		5.7
SW	1.3	.5	2.0	1.3		4.9
W	5.4	1.5	2.7	2.4		3.7
NW	14.2	3.5	6.7	4.6		3.3
VAR	.0	.0	.0	.0		.0
CALM	2.8	.5	1.0	2.2		4.0
TOT OBS	1106	234	511	546	2397	3.6
TOT PCT	46.1	9.8	21.3	22.8	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.5	.0	.4	.7	2.2	1.4	.2	.0	.2	.2	13.9	
NE	.1	.0	.0	.2	.6	.4	.2	.0	.0	.2	7.9	
E	.1	*	.1	.2	.6	.4	.2	.1	*	*	4.0	
SE	.2	*	.2	.7	1.0	.6	.1	*	*	.1	1.9	
S	.6	*	.3	1.1	1.2	.6	.1	.2	.1	.1	2.8	
SW	.3	*	*	.3	1.0	.6	.1	*	*	*	2.7	
W	.4	.0	.2	.4	1.2	.9	.2	*	*	.3	8.3	
NW	.9	.1	.3	1.0	3.4	1.7	.4	.1	.2	.1	20.7	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.8	.0	.0	.1	.8	.1	.3	.0	*	.2	4.3	
TOT OBS	96	6	38	111	287	162	44	11	14	28	1600	2397
TOT PCT	4.0	.3	1.6	4.6	12.0	6.8	1.8	.5	.6	1.2	66.8	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM) * OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >50YD	* OR >0
* OR >6500	1.2	1.7	1.7	1.7	1.8	1.8	1.8	1.8
* OR >9000	1.5	2.1	2.2	2.2	2.2	2.2	2.2	2.2
* OR >3500	2.5	3.9	4.0	4.0	4.1	4.1	4.1	4.1
* OR >2000	6.7	10.0	10.7	10.8	10.8	10.8	10.8	10.8
* OR >1000	13.4	19.8	21.8	22.6	22.7	22.8	22.8	22.8
* OR >600	16.0	23.7	26.0	27.0	27.3	27.4	27.4	27.4
* OR >300	16.4	24.9	27.5	28.6	28.9	29.0	29.0	29.0
* OR >150	16.5	25.0	27.6	28.7	29.1	29.2	29.3	29.3
* OR > 0	16.5	25.1	28.2	29.6	30.6	31.3	32.7	33.2
TOTAL	398	606	679	715	738	756	788	800

TOTAL NUMBER OF OBS: 2412

PCT FREQ NH <5/8: 66.8

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
41.9	7.2	8.5	5.8	3.2	4.1	6.4	5.0	14.4	3.5	2515

FEBRUARY

PERIOD: (PRIMARY) 1938-1974
(OVER-ALL) 1869-1974

TABLE 8

AREA 0034 POINT MUGU NW
34.8N 121.0W

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	*	*	*	*	*	*	.0	.0	.2	
	NO PCP	.3	*	.1	.2	.2	.2	.2	.6	.0	.5	2.2	
	TOT %	.3	*	.1	.2	.3	.2	.2	.6	.0	.5	2.4	
1/2<1	PCP	.0	.0	.1	.2	.1	*	.0	.1	.0	*	.4	
	NO PCP	.2	*	*	.2	.1	.1	.1	.2	.0	.1	1.1	
	TOT %	.2	*	.1	.4	.2	.1	.1	.3	.0	.1	1.6	
1<2	PCP	*	*	.1	.2	.1	.1	*	*	.0	*	.6	
	NO PCP	.1	.4	.1	.2	.1	.1	.3	.2	.0	.2	1.6	
	TOT %	.2	.4	.1	.4	.2	.2	.3	.2	.0	.2	2.2	
2<5	PCP	.1	.1	.3	.2	.5	.1	.1	.1	.0	*	1.4	
	NO PCP	1.0	.6	.5	.5	.7	.6	.5	1.0	.0	.9	6.2	
	TOT %	1.1	.7	.8	.7	1.1	.7	.6	1.0	.0	.9	7.5	
5<10	PCP	.2	.2	.2	.4	.3	.2	.2	.2	.0	.1	2.1	
	NO PCP	3.8	2.5	1.6	1.7	1.7	1.8	2.7	5.8	.0	1.4	23.1	
	TOT %	4.0	2.7	1.8	2.0	2.1	2.0	2.9	6.1	.0	1.5	25.2	
10+	PCP	.1	*	.0	.1	.1	*	.1	.2	.0	.1	.7	
	NO PCP	12.5	4.3	3.1	3.2	3.7	3.5	7.8	20.2	.0	2.2	60.4	
	TOT %	12.6	4.3	3.1	3.3	3.8	3.5	7.9	20.4	.0	2.3	61.1	
	TOT OBS												3833
	TOT PCT	18.3	8.1	6.0	7.0	7.6	6.7	12.0	28.5	.0	5.6	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.1	*	.0	.0	*	.1	*	.1	.0	.5	.7	
	4-10	.1	*	.1	.1	.2	.1	.1	.3	.0		1.1	
	11-21	.1	.0	*	.1	.1	.1	.1	.2	.0		.7	
	22+	.0	.0	.0	*	.0	.0	.0	*	.0		*	
	TOT %	.3	*	.1	.2	.2	.3	.3	.6	.0	.5	2.5	
1/2<1	0-3	*	*	.0	.1	*	*	*	*	.0	.1	.3	
	4-10	.1	*	*	.2	.1	.1	.1	.1	.0		.7	
	11-21	.1	.0	.1	.1	*	*	*	.1	.0		.5	
	22+	*	.0	*	*	*	.0	.0	*	.0		.1	
	TOT %	.2	*	.1	.4	.2	.1	.1	.3	.0	.1	1.6	
1<2	0-3	*	.2	*	.0	*	*	*	.1	.0	.2	.6	
	4-10	.1	.1	*	.3	.2	.2	.2	.1	.0		1.1	
	11-21	*	.0	*	.1	*	*	.1	*	.0		.4	
	22+	*	.0	.0	*	*	.0	.0	*	.0		.1	
	TOT %	.2	.4	.1	.4	.3	.2	.3	.2	.0	.2	2.2	
2<5	0-3	.1	.1	.1	.1	.1	*	.1	.1	.0	.9	1.7	
	4-10	.6	.5	.6	.5	.5	.4	.4	.5	.0		4.0	
	11-21	.2	.0	.1	.1	.3	.2	.1	.4	.0		1.3	
	22+	*	.0	.1	.1	.2	*	.0	.1	.0		.6	
	TOT %	1.0	.7	.8	.8	1.2	.7	.5	1.1	.0	.9	7.7	
5<10	0-3	.8	.9	.3	.2	.2	.2	.3	.3	.0	1.6	4.8	
	4-10	1.2	1.4	1.2	.9	.8	1.1	1.3	2.5	.0		10.3	
	11-21	1.3	.2	.2	.6	.7	.5	1.0	2.2	.0		6.8	
	22+	.6	*	.1	.3	.2	.1	.2	.7	.0		2.3	
	TOT %	3.9	2.5	1.8	1.9	2.0	2.0	2.9	5.8	.0	1.6	24.2	
10+	0-3	1.2	.8	.5	.4	.5	.5	.8	1.1	.0	2.5	8.4	
	4-10	4.5	2.2	1.7	1.9	1.6	2.0	4.0	6.6	.0		24.5	
	11-21	4.8	1.2	.9	1.0	1.3	.9	2.7	9.2	.0		22.0	
	22+	2.0	.1	.1	.1	.2	.1	.6	3.7	.0		6.8	
	TOT %	12.6	4.3	3.3	3.4	3.6	3.5	8.1	20.6	.0	2.5	61.8	
	TOT OBS												4102
	TOT PCT	18.1	7.9	6.2	7.1	7.5	6.7	12.2	28.5	.0	5.8	100.0	

FEBRUARY

PERIOD: (PRIMARY) 1938-1974
(OVER-ALL) 1869-1974

AREA 0034 POINT HUGU NW
34.3N 121.0W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET,NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00&03	3.4	.2	1.8	4.3	10.1	7.7	2.3	.6	1.0	1.1	32.5	67.5	621
06&09	4.5	.3	2.1	3.1	10.5	6.9	1.2	.7	.3	.9	30.5	69.5	580
12&15	4.9	.2	1.0	5.7	15.8	6.2	2.4	.2	.3	.9	37.6	62.4	577
18&21	3.0	.3	1.6	4.7	10.8	5.5	1.4	.3	.6	1.7	29.8	70.2	704
TOT	96	6	40	111	291	163	45	11	14	29	806	1676	2482
PCT	3.9	.2	1.6	4.5	11.7	6.6	1.8	.4	.6	1.2	32.5	67.5	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00&03	2.2	1.9	2.3	5.6	24.1	63.9	1015
06&09	3.2	.9	1.5	4.5	28.7	61.3	821
12&15	3.2	2.0	2.7	6.2	23.9	62.0	1016
18&21	1.9	1.5	2.3	12.4	21.1	60.8	1297
TOT	105	66	92	318	998	2570	4149
PCT	2.5	1.6	2.2	7.7	24.1	61.9	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET,NH >4/8),BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	3.4	5.9	16.2	19.9	63.9	613
06&09	4.4	7.3	15.5	18.2	66.3	573
12&15	4.8	7.1	16.6	23.7	59.7	566
18&21	3.3	5.9	19.7	17.7	62.6	660
TOT	95	157	412	477	1523	2412
PCT	3.9	6.5	17.1	19.8	63.1	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
75/79	*	.0	.0	*	.0	.0	.0	.0	2	.1
70/74	.2	.1	*	.1	.1	.0	*	.0	13	.5
65/69	.2	.3	.2	.3	.2	.3	.0	.0	39	1.5
60/64	.3	.4	.9	1.4	2.8	2.8	1.6	.7	280	10.8
55/59	.3	.3	.9	2.2	4.7	12.3	15.4	8.3	1149	44.5
50/54	.1	.4	.7	1.7	5.9	7.2	12.1	7.5	922	35.7
45/49	.0	.2	.3	.8	1.2	1.2	1.4	.8	152	5.9
40/44	.0	.0	.1	.2	.2	.3	.1	.1	24	.9
35/39	.0	.0	.0	.0	*	*	.0	.0	2	.1
TOTAL	28	45	79	172	391	624	796	450	2583	100.0
PCT	1.1	1.7	3.1	6.7	15.1	24.2	30.7	17.4		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
*	*	.0	.0	.0	.0	.0	*	.0	.0
.1	.1	.1	*	*	*	.1	.1	.0	.0
.2	.2	.2	.1	*	.1	.2	.3	.0	.1
.9	.7	.7	.8	1.5	1.6	1.5	2.3	.0	.8
7.0	2.2	2.3	3.4	4.9	3.0	5.7	13.5	.0	2.5
8.0	2.7	1.7	1.4	2.0	1.8	3.6	12.7	.0	1.8
1.9	1.2	.2	*	*	.1	.2	1.7	.0	.5
.3	.4	.1	.0	.0	*	.0	*	.0	.0
.0	.1	.0	.0	.0	.0	.0	.0	.0	.0
18.4	7.6	5.3	5.8	8.5	6.8	11.3	30.7	.0	5.7

TABLE 15

MEANS,EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00&03	76	69	64	56	51	48	43	56.6	1030
06&09	68	62	59	54	48	44	42	54.1	833
12&15	73	61	59	54	45	41	38	53.1	1047
18&21	78	69	64	56	51	48	43	56.8	1340
TOT	78	67	62	55	48	44	38	55.3	4250

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00&03	.4	9.1	17.3	26.4	31.6	15.1	77	670
06&09	.2	5.8	12.2	21.5	36.7	23.7	81	502
12&15	.8	8.6	12.6	19.6	35.2	23.1	79	627
18&21	2.3	19.6	16.9	27.6	22.4	11.2	71	816
TOT	28	304	394	633	800	456	76	2615

PERIOD: (PRIMARY) 1938-1974
(OVER-ALL) 1869-1974

AREA 0034 POINT MUGU NW
34.5N 121.0W

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	41 44	45 48	49 52	53 56	57 60	61 64	65 68	69 72	73 76	TOT	W FOG	WO FOG
17/19	.0	.0	.0	.0	.0	.0	.0	*	.0	1	.0	*
14/16	.0	.0	.0	.0	.0	.1	.0	.1	.1	6	*	.2
11/13	.0	.0	.0	.1	.0	.1	.2	.1	.0	13	.0	.5
9/10	.0	.0	.0	.0	*	.4	.3	*	.0	21	.1	.7
7/8	.0	.0	*	*	.5	1.1	.3	.0	.0	55	.0	2.1
6	.0	.0	.0	.2	.5	.8	.1	.0	.0	45	.2	1.5
5	.0	.0	*	.4	1.5	1.2	.1	.0	.0	88	.3	3.0
4	.0	.0	.1	1.5	2.8	1.0	.0	.0	.0	144	.4	5.0
3	.0	.0	*	.9	2.3	.4	.0	.0	.0	97	.3	3.3
2	.0	.0	.4	3.3	5.0	.3	.0	.0	.0	242	.8	8.4
1	.0	.0	.1	4.2	3.6	.1	.0	.0	.0	215	.9	7.1
0	.0	.1	1.8	10.6	4.7	.1	.0	.0	.0	464	1.4	15.9
-1	.0	.0	1.3	7.1	2.3	.0	.0	.0	.0	286	.9	9.8
-2	.0	.1	4.9	7.6	1.3	.1	.0	.0	.0	373	1.1	12.8
-3	.0	.1	3.2	3.5	.6	.0	.0	.0	.0	199	.6	6.9
-4	*	.3	3.5	2.7	.1	.0	.0	.0	.0	178	.3	6.3
-5	.0	.4	1.8	1.7	.2	.0	.0	.0	.0	110	.4	3.7
-6	.0	.4	1.3	.4	.1	.0	.0	.0	.0	59	.1	2.1
-7/-8	.0	.4	1.2	.4	.1	.0	.0	.0	.0	54	.1	1.9
-9/-10	.1	.3	.3	*	*	.0	.0	.0	.0	20	.1	.7
-11/-13	.0	.1	.1	.0	*	.0	.0	.0	.0	8	.0	.3
-14/-16	.0	*	.0	.0	.0	.0	.0	.0	.0	1	.0	*
TOTAL	3	63	532	1196	690	157	29	7	2	2679	211	2468
PCT	.1	2.4	19.9	44.6	25.8	5.9	1.1	.3	.1	100.0	7.9	92.1

PERIOD: (OVER-ALL) 1963-1974

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	1.2	.3	.0	.0	.0	1.8
1-2	.3	3.0	1.9	.0	.0	.0	5.2
3-4	.1	2.3	2.8	.5	.0	.0	5.7
5-6	.0	.8	2.4	.5	.1	.0	3.8
7	.0	.1	1.9	.6	.0	.0	2.6
8-9	.0	.0	.0	.3	.1	.0	.5
10-11	.0	.0	.3	.5	.1	.0	.9
12	.0	.0	.1	.1	.1	.0	.3
13-16	.0	.0	.0	.5	.0	.0	.5
17-19	.0	.0	.1	.0	.0	.0	.1
20-22	.0	.0	.1	.0	.0	.0	.1
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.6	7.4	10.0	3.1	.5	.0	21.5

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	.6	*	.0	.0	.0	.6
1-2	.0	1.2	.3	.0	.0	.0	1.5
3-4	*	*	.3	*	.0	.0	.5
5-6	.0	.0	.7	.0	.0	.0	.7
7	.0	.0	.1	.0	.0	.0	.1
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.1	.1	.0	.0	.0	.3
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	*	.0	.0	*
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	1.7	1.6	.1	.0	.0	3.6

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	.8	.0	.0	.0	.0	1.2
1-2	.0	1.5	.7	.0	.0	.0	2.2
3-4	.0	.0	.1	.0	.0	.0	.1
5-6	.0	.0	.1	.3	.0	.0	.4
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	2.3	.9	.3	.0	.0	3.8

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.7	.0	.0	.0	.0	.7
1-2	*	1.5	.3	.0	.0	.0	1.9
3-4	.0	.5	1.1	.4	.0	.0	2.1
5-6	.0	.0	.3	.3	.0	.0	.7
7	.0	.0	.1	*	.0	.0	.1
8-9	.0	.0	*	.1	.0	.0	.2
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.1	2.7	2.0	.9	.0	.0	5.7

PERIOD: (OVER-ALL) 1963-1974 FEBRUARY AREA 0034 POINT MUGU NW

TABLE 18 (CONT) 34.5N 121.0W

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

	S							SW						
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.4	.8	.0	.0	.0	.0	1.3	.5	.7	.0	.0	.0	.0	1.2
1-2	.2	1.4	1.0	.0	.0	.0	2.7	.0	1.0	.8	.0	.0	.0	1.7
3-4	.3	.7	1.8	.1	.0	.0	3.0	.0	.4	.2	*	.0	.0	.7
5-6	.0	.0	.6	.2	.0	.0	.9	.0	.0	*	*	.0	.0	.1
7	.0	.0	.5	.1	.0	.0	.6	.0	.1	.8	.0	.0	.0	1.0
8-9	.0	.0	.1	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	.1
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.9	3.0	4.0	.5	.0	.0	8.5	.5	2.3	2.0	.1	.0	.0	4.8

	W							NW							TOTAL
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	PCT
<1	.3	.5	.0	.0	.0	.0	.9	.3	1.2	*	.0	.0	.0	1.5	
1-2	.2	2.2	1.2	.0	.0	.0	3.6	.3	5.5	4.8	.0	.0	.0	10.6	
3-4	.0	.9	1.1	.1	.0	.0	2.1	.1	3.1	6.8	2.4	.0	.0	12.4	
5-6	.0	.0	.2	.2	.0	.0	.5	.0	.6	2.2	1.2	*	.0	4.0	
7	.0	.0	.6	.3	.0	.0	1.0	.0	.2	3.1	1.7	.1	.0	5.1	
8-9	.0	.0	.0	.2	.1	.0	.3	.0	.0	.6	1.3	.3	.0	2.2	
10-11	.0	.0	.1	.1	.0	.0	.2	.0	.1	.5	1.0	.2	.0	1.8	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	.3	.3	.0	.7	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.2	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.1	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	.1	.0	.0	.2	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.6	3.6	3.3	1.0	.1	.0	8.6	.8	10.7	18.1	8.2	1.0	.0	38.8	95.3

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	6.7	6.4	.4	.0	.0	.0	13.5	
1-2	1.8	17.2	11.0	.0	.0	.0	30.0	
3-4	.6	7.9	14.3	3.6	.0	.0	26.4	
5-6	.0	1.4	6.5	2.8	.1	.0	10.8	
7	.0	.4	7.1	2.8	.1	.0	10.4	
8-9	.0	.0	.8	1.9	.6	.0	3.3	
10-11	.0	.3	1.0	1.7	.3	.0	3.2	
12	.0	.0	.1	.4	.4	.0	1.0	
13-16	.0	.0	.0	.7	.0	.0	.7	
17-19	.0	.0	.3	.0	.0	.0	.3	
20-22	.0	.0	.1	.1	.0	.0	.3	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
								719
TOT PCT	9.0	33.7	41.7	14.0	1.5	.0	100.0	

PERIOD: (OVER-ALL) 1949-1974 TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	2.8	10.2	12.3	5.6	2.6	.6	.8	.3	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	499	3
6-7	.1	1.4	6.7	7.3	5.0	1.6	1.6	.6	.6	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	350	6
8-9	.0	1.1	2.9	2.8	3.1	1.3	2.1	1.0	.8	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	216	7
10-11	.0	.7	1.8	1.1	1.1	1.6	1.0	.5	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	114	7
12-13	.0	.0	1.2	1.3	.6	.9	.4	.4	.3	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	74	7
>13	.0	.0	.0	.2	.8	.6	.2	.1	.5	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	38	10
INDET	3.9	1.9	1.2	.6	.6	.1	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	122	2
TOTAL	96	217	369	266	195	95	87	41	36	7	4	0	0	0	0	0	0	0	0	1413	5
PCT	6.8	15.4	26.1	18.8	13.8	6.7	6.2	2.9	2.5	.5	.3	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

MARCH

PERIOD: (PRIMARY) 1938-1974
(OVER-ALL) 1871-1974

AREA 0034 POINT MUGU NW
34.6N 121.0W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG	DUST BLWG	NO SIG WEA
N	.6	.1	.4	.0	.0	.0	.1	1.1	.2	.0	4.0	.2	3.2		.1	91.2
NE	.2	.0	.3	.0	.0	.0	.2	1.0	1.2	.0	11.0	.0	5.6		.0	81.2
E	3.3	2.3	.9	.0	.0	.0	.3	6.7	2.4	.0	11.1	.0	9.7		.0	70.0
SE	10.1	1.4	5.3	.0	.0	.0	.0	15.0	1.7	.0	10.1	.0	6.9		.0	66.3
S	8.8	1.4	5.5	.0	.0	.0	.0	14.0	2.4	.0	7.3	1.1	8.9		.0	66.2
SW	3.7	3.6	4.0	.0	.0	.0	.0	10.7	3.0	.0	8.4	.0	7.7		.1	70.1
W	1.5	.6	1.1	.0	.0	.0	.0	2.8	1.0	.0	6.6	.4	9.9		.1	78.8
NW	.5	.3	.5	.0	.0	.0	*	1.1	.8	.0	5.0	.2	4.2		.1	88.6
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	.0
CALM	1.1	.0	1.7	.0	.0	.0	.0	2.8	.6	.0	14.5	.0	14.5		.0	67.6
TOT PCT	1.9	.7	1.4	.0	.0	.0	*	3.6	1.1	.0	6.6	.3	6.4		.1	81.9
TOT OBS:	4353															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG	DUST BLWG	NO SIG WEA
00&03	2.1	.6	1.0	.0	.0	.0	.0	3.5	1.1	.0	4.8	.3	7.3		.0	82.9
06&09	1.7	.9	.9	.0	.0	.0	.0	3.2	1.1	.0	6.1	.3	4.7		.1	84.5
12&15	2.3	.7	2.2	.0	.0	.0	.1	4.4	.8	.0	8.5	.3	4.2		.0	81.9
18&21	1.7	.6	1.4	.0	.0	.0	.1	3.4	1.5	.0	7.0	.1	6.4		.1	79.4
TOT PCT	1.9	.7	1.4	.0	.0	.0	*	3.6	1.1	.0	6.7	.3	6.4		.1	81.8
TOT OBS:	4380															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	1.5	4.9	6.8	3.0	.2	.0		16.5	14.2	13.1	11.1	20.0	17.4	23.1	19.0	15.7	12.3
NE	1.6	2.9	.6	.2	.0	.0		5.2	6.4	.9	1.2	6.1	8.9	8.9	11.9	4.1	1.7
E	1.0	2.1	.8	.2	.0	.0		4.0	7.6	1.3	2.0	3.1	5.1	5.7	8.0	4.9	2.7
SE	.8	2.4	1.2	.4	.1	.0		4.8	9.8	3.8	4.7	3.2	5.1	2.5	6.4	5.7	7.3
S	1.1	2.6	2.0	.4	*	.0		6.0	9.9	6.4	5.1	4.7	5.9	3.4	3.6	8.7	6.7
SW	1.0	2.6	1.6	.3	*	.0		5.4	9.5	5.9	4.5	4.3	3.2	4.3	3.9	6.4	8.5
W	1.7	8.6	6.4	1.3	.1	.0		18.1	11.1	27.0	22.7	15.8	12.9	13.0	10.6	18.5	20.8
NW	1.7	10.0	16.3	7.0	.6	.0		35.6	15.1	39.0	46.0	37.9	36.7	33.8	33.6	28.2	35.7
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	4.3							4.3	.0	2.6	2.5	4.9	4.8	5.2	2.9	7.8	2.4
TOT OBS	699	1730	1705	606	49	0	4789		12.0	742	354	589	376	687	510	795	736
TOT PCT	14.6	36.1	35.6	12.7	1.0	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	3.3	6.8	5.6	.9	.0		16.5	14.2	12.4	19.0	21.4	14.0
NE	3.5	1.3	.3	.0	.0		5.2	6.4	1.0	7.2	10.2	3.0
E	2.4	1.2	.4	.0	.0		4.0	7.6	1.5	3.9	6.7	3.9
SE	2.1	1.9	.7	.1	.0		4.8	9.8	4.1	3.9	4.2	6.5
S	2.3	2.7	1.0	.1	.0		6.0	9.9	6.0	5.2	3.5	8.7
SW	2.3	2.3	.8	.1	.0		5.4	9.5	5.5	3.9	4.2	7.4
W	5.3	9.1	3.2	.5	*		18.1	11.1	25.6	14.7	12.0	19.4
NW	5.2	15.5	12.4	2.5	*		35.6	15.1	41.3	37.5	33.7	31.8
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	4.3						4.3	.0	2.6	4.9	4.3	5.2
TOT OBS	1496	1953	1171	198	1	4789		12.0	1096	965	1197	1531
TOT PCT	30.6	40.8	24.5	4.1	*		100.0		100.0	100.0	100.0	100.0

PERIOD: (PRIMARY) 1938-1974
(OVER-ALL) 1871-1974

AREA 0034 POINT MUGU NW
34.6N 121.0W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS) 11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	2.6	6.0	33..	42.4	14.2	1.4	.0	13.4	100.0	1096
06&09	4.9	10.5	34.4	34.8	14.3	1.1	.0	12.2	100.0	965
12&15	4.3	11.4	36.4	34.1	12.9	.9	.0	11.8	100.0	1197
18&21	3.2	12.4	38.9	32.4	10.3	.8	.0	10.9	100.0	1531
TOT	206	493	1730	1705	606	49	0	12.0		4789
PCT	4.3	10.3	36.1	35.6	12.7	1.0	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	10.6	2.0	3.3	2.4		2.8
NE	4.5	.5	.9	1.2		2.6
E	2.0	.3	.9	1.4		4.0
SE	.8	.1	1.0	1.5		5.6
S	1.3	.3	1.6	1.9		5.3
SW	1.7	.5	1.7	1.4		4.7
W	9.5	1.6	4.3	3.3		3.4
NW	16.0	4.2	7.1	4.9		3.3
VAR	.0	.0	.0	.0		.0
CALM	2.4	.4	1.1	1.2		3.6
TOT OBS	1342	276	603	534	2755	3.5
TOT PCT	48.7	10.0	21.9	19.4	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.2	.1	.3	.8	1.6	1.2	.2	.1	*	.1	13.8	
NE	.1	.0	*	.2	.5	.4	.3	*	.0	.3	5.5	
E	.3	.0	*	.2	.6	.5	.1	.1	*	.1	2.9	
SE	.1	.0	.1	.2	.6	.6	.1	*	*	.1	1.5	
S	.1	*	.2	.3	.9	.7	.2	.1	.0	.1	2.6	
SW	.2	*	.2	.4	.7	.5	.1	*	*	*	3.1	
W	.5	*	.2	.8	1.7	1.5	.5	.1	.0	.4	13.2	
NW	.7	*	.4	1.3	3.4	2.0	.7	.2	.1	.3	23.1	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.3	*	.1	.1	.4	.3	.1	.0	*	.3	3.5	
TOT OBS	65	5	43	119	281	209	62	14	7	45	1905	2755
TOT PCT	2.4	.2	1.6	4.3	10.2	7.6	2.3	.5	.3	1.6	69.1	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM) = OR >10	= OR >5	= OR >2	= OR >1	= OR >1/2	= OR >1/4	= OR >50YD	= OR >0
= OR >6500	.9	1.6	1.9	1.9	1.9	1.9	1.9	1.9
= OR >5000	1.0	2.1	2.4	2.4	2.4	2.4	2.4	2.4
= OR >3500	2.0	4.0	4.6	4.6	4.7	4.7	4.7	4.7
= OR >2000	5.8	10.3	11.7	12.0	12.2	12.2	12.2	12.2
= OR >1000	11.0	18.4	21.3	22.1	22.3	22.3	22.3	22.3
= OR >600	13.5	22.1	25.5	26.3	26.5	26.6	26.6	26.6
= OR >300	14.0	22.9	26.8	27.9	28.1	28.1	28.2	28.2
= OR >150	14.1	23.0	27.0	28.1	28.3	28.3	28.4	28.4
= OR > 0	14.3	23.3	27.4	28.6	29.3	30.0	30.5	30.7
TOTAL	395	645	758	791	811	829	845	850

TOTAL NUMBER OF OBS: 2766

PCT FREQ NH <5/8: 69.3

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
40.7	8.4	10.3	5.4	4.0	4.0	6.5	4.9	13.9	2.0	2897

PERIOD: (PRIMARY) 1938-1974
(OVER-ALL) 1871-1974

AREA 0034 POINT MUGU NW
34.6N 121.0W

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
<1/2	NO PCP	.1	.1	.2	.1	.1	.1	.4	.5	.0	.2	1.9	
	TOT %	.1	.1	.2	.1	.1	.1	.4	.5	.0	.2	1.9	
	PCP	.0	.0	*	.1	.1	*	.0	.0	.0	.0	.2	
1/2<1	NO PCP	.0	.1	.1	.1	.1	*	.1	.3	.0	.1	.9	
	TOT %	.0	.1	.1	.2	.1	*	.1	.3	.0	.1	1.1	
	PCP	.0	*	.1	.1	.1	*	*	*	.0	.0	.4	
1<2	NO PCP	.2	.2	.1	.1	.3	.1	.2	.2	.0	.1	1.4	
	TOT %	.2	.2	.2	.2	.3	.1	.2	.2	.0	.1	1.9	
	PCP	*	*	*	.2	.2	.1	.1	*	.0	*	.8	
2<5	NO PCP	.4	.3	.2	.3	.4	.4	1.5	.9	.0	.2	4.6	
	TOT %	.5	.3	.3	.5	.6	.5	1.6	.9	.0	.3	5.4	
	PCP	.1	.0	.1	.1	.5	.3	.4	.4	.0	*	1.7	
5<10	NO PCP	9.5	1.7	1.4	1.3	1.7	1.5	5.4	7.9	.0	1.3	25.7	
	TOT %	9.6	1.7	1.5	1.5	2.1	1.8	5.7	8.0	.0	1.3	27.3	
	PCP	.1	*	*	*	*	.1	*	.1	.0	*	.5	
10+	NO PCP	12.2	2.9	1.7	1.9	2.8	2.7	10.6	25.1	.0	2.0	61.9	
	TOT %	12.3	2.9	1.7	1.9	2.8	2.8	10.6	25.2	.0	2.1	62.4	
	TOT OBS												4348
	TOT PCT	16.7	5.3	4.0	4.4	6.1	5.5	18.7	35.2	.0	4.1	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	0-3	.1	*	.1	*	*	*	.1	*	.0	.3	.7	
<1/2	4-10	*	*	*	.1	*	.1	.2	.3	.0		.8	
	11-21	*	.0	*	*	*	*	.1	.2	.0		.4	
	22+	*	.0	.0	.0	.0	.0	.0	*	.0		*	
	TOT %	.1	.1	.2	.2	.1	.1	.4	.5	.0	.3	2.0	
	0-3	.0	*	*	*	*	*	*	.1	.0	.1	.3	
1/2<1	4-10	.0	*	.1	.1	.1	*	.1	.1	.0		.5	
	11-21	.0	.0	*	.1	.0	.0	*	.1	.0		.2	
	22+	.0	.0	.0	*	*	.0	.0	*	.0		.1	
	TOT %	.0	.1	.1	.2	.1	*	.2	.4	.0	.1	1.1	
	0-3	.1	.1	.1	*	.1	.1	*	.1	.0	.1	.7	
1<2	4-10	.1	.1	*	.1	.1	*	.2	.1	.0		.7	
	11-21	*	.0	*	*	.1	*	*	.1	.0		.3	
	22+	.0	.0	*	.1	*	*	*	*	.0		.2	
	TOT %	.2	.2	.2	.2	.3	.2	.2	.3	.0	.1	1.9	
	0-3	.2	.1	.1	.2	.2	.1	.2	.2	.0	.3	1.6	
2<5	4-10	.2	.2	.1	.2	.4	.3	1.0	.6	.0		2.9	
	11-21	.1	*	*	.1	.1	.1	.3	.3	.0		1.1	
	22+	*	.0	.0	.1	*	*	*	.1	.0		.4	
	TOT %	.5	.3	.3	.6	.7	.5	1.6	1.2	.0	.3	6.0	
	0-3	.5	.7	.4	.2	.4	.4	.7	.5	.0	1.4	5.0	
5<10	4-10	.9	.8	.8	.7	.7	.7	2.4	2.1	.0		9.2	
	11-21	1.3	.1	.2	.4	.7	.5	1.8	3.4	.0		8.3	
	22+	.8	*	.1	.2	.2	.1	.5	1.9	.0		3.8	
	TOT %	3.5	1.6	1.5	1.5	2.0	1.7	5.4	7.9	.0	1.4	26.4	
	0-3	.8	.5	.3	.3	.4	.4	.5	.8	.0	2.2	6.2	
10+	4-10	3.7	1.7	1.0	1.1	1.3	1.4	4.8	6.8	.0		21.8	
	11-21	5.4	.5	.5	.6	1.0	.9	4.3	12.1	.0		25.3	
	22+	2.4	.1	.1	*	.1	.2	.9	5.6	.0		9.3	
	TOT %	12.2	2.8	1.8	2.1	2.8	2.9	10.5	25.4	.0	2.2	62.6	
	TOT OBS												4641
	TOT PCT	16.5	5.1	4.0	4.7	6.1	5.4	18.3	35.6	.0	4.2	100.0	

MARCH

PERIOD: (PRIMARY) 1938-1974
(OVER-ALL) 1871-1974

AREA 0034 POINT HUGU NW
34.6N 121.0W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <3/8 ANY HGT	TOTAL OBS
00&03	2.9	.0	1.7	4.8	8.8	6.8	1.6	.6	.1	2.0	29.4	70.6	690
06&09	1.6	.2	1.6	2.3	8.7	6.4	2.5	.2	.0	1.1	24.5	75.5	642
12&15	2.5	.1	1.6	5.3	10.3	9.0	3.4	.7	.3	1.2	34.5	65.5	678
18&21	2.2	.4	1.2	4.2	11.5	7.2	1.6	.5	.5	1.9	30.9	69.1	837
TOT	65	5	43	119	283	209	63	14	7	45	853	1994	2847
PCT	2.3	.2	1.5	4.2	9.9	7.3	2.2	.5	.2	1.6	30.0	70.0	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00&03	1.5	1.0	1.1	6.4	25.9	64.0	1070
06&09	1.7	.6	1.8	5.6	27.4	62.9	956
12&15	2.7	1.5	2.7	4.8	26.2	62.1	1166
18&21	2.0	1.3	2.1	6.8	26.2	61.6	1478
TOT	93	53	92	280	1232	2920	4670
PCT	2.0	1.1	2.0	6.0	26.4	62.5	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET, NH >4/8), BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 5+ AND	TOTAL OBS
00&03	3.2	5.3	16.0	18.3	65.8	663
06&09	1.6	3.6	12.8	14.4	72.8	633
12&15	2.7	5.6	16.8	21.2	62.0	655
18&21	2.2	4.4	15.6	19.4	65.0	815
TOT	67	131	424	509	1833	2766
PCT	2.4	4.7	15.3	18.4	66.3	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
75/79	.1	.0	.1	*	.0	*	.0	.0	7	.3
70/74	.1	.0	.0	.1	.1	*	*	.0	10	.4
65/69	.1	*	.3	.4	.8	.6	.1	.0	67	2.4
60/64	*	.1	.1	1.1	3.4	3.8	3.0	.8	343	12.4
55/59	*	.1	.3	1.3	4.2	11.7	16.0	7.1	1125	40.7
50/54	.0	*	.1	1.0	5.6	8.4	15.2	8.9	1084	39.2
45/49	.0	.0	.1	*	.4	.9	1.3	1.5	116	4.2
40/44	.0	.0	.0	*	*	.0	.2	.1	11	.4
TOTAL	10	9	27	114	399	703	992	509	2763	100.0
PCT	.4	.3	1.0	4.1	14.4	25.4	35.9	18.4		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

TEMP F	N	NE	E	SE	S	SW	W	NW	VAR	CALM
75/79	.1	.1	.1	.0	.0	.0	.0	.0	.0	.0
70/74	*	*	*	.0	*	*	.2	*	.0	.0
65/69	.3	.1	.1	*	.2	.2	.6	.7	.0	.1
60/64	1.2	.3	.4	.7	1.2	1.5	3.4	3.0	.0	.7
55/59	6.1	1.3	1.2	2.0	3.1	2.4	8.7	14.5	.0	1.5
50/54	8.6	1.5	1.3	1.1	1.7	1.4	5.1	17.5	.0	1.1
45/49	.7	.9	.4	*	.0	*	.5	1.4	.0	.2
40/44	.2	.1	.0	.0	.0	.0	*	.0	.0	*
TOTAL										
PCT	17.3	4.4	3.5	3.9	6.2	5.4	18.4	37.0	.0	3.7

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00&03	76	68	64	56	52	49	37	56.8	1089
06&09	70	62	59	54	48	46	40	53.9	970
12&15	68	63	59	54	47	44	41	53.3	1204
18&21	78	70	65	57	51	48	43	57.3	1529
TOT	78	67	63	55	49	45	37	55.5	4792

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00&03	.0	5.2	17.1	30.9	35.5	11.2	78	695
06&09	.0	3.0	9.5	21.3	40.2	26.0	82	569
12&15	.3	3.5	8.2	20.2	39.3	28.5	83	684
18&21	1.0	8.9	20.6	28.1	30.5	11.0	76	834
TOT	10	151	401	708	999	513	79	2782

MARCH

PERIOD: (PRIMARY) 1938-1974
(OVER-ALL) 1871-1974

AREA 0034 POINT MUGU NW
34.0N 121.0W

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	45 48	49 52	53 56	57 60	61 64	65 68	69 72	73 76	TOT	W FOG	WO FOG
20/22	.0	.0	.0	.0	.0	.0	.0	.1	2	.0	.1
17/19	.0	.0	.0	.0	.0	.1	.0	.0	2	.0	.1
14/16	.0	.0	.0	.0	.2	*	.2	.1	15	*	.5
11/13	.0	.0	*	*	.1	.3	.1	.0	16	.0	.5
9/10	.0	.0	.1	.1	.5	.4	.0	.0	33	*	1.1
7/8	.0	.0	.1	.8	1.2	.4	.0	.0	77	.3	2.3
6	.0	.0	.1	.6	.5	.1	.0	.0	39	*	1.3
5	.0	.1	.4	1.3	1.3	.1	.0	.0	93	.2	2.9
4	.0	.1	1.8	2.7	1.1	*	.0	.0	173	.4	5.3
3	.0	.1	1.6	2.1	.6	.0	.0	.0	134	.2	4.2
2	.0	.3	3.7	4.6	.8	.0	.0	.0	285	.7	8.7
1	.0	.4	4.6	2.6	.1	*	.0	*	237	.2	7.6
0	.1	2.6	10.2	4.2	.4	.0	.0	.0	528	1.1	16.3
-1	*	1.9	6.3	1.7	.0	.0	.0	.0	301	.5	9.4
-2	.2	4.5	7.2	1.5	*	.0	.0	.0	410	.7	12.9
-3	*	2.4	3.7	.5	.1	.0	.0	.0	204	.4	6.4
-4	.4	3.4	3.5	.3	.0	.0	.0	.0	232	.5	7.1
-5	.3	1.9	1.4	.1	.0	.0	.0	.0	112	.4	3.3
-6	.2	1.0	.5	.2	*	.0	.0	.0	57	.1	1.8
-7/-8	.3	.9	.3	.2	*	.0	.0	.0	53	.1	1.6
-9/-10	.1	.3	.1	.1	*	.0	.0	.0	20	*	.6
-11/-13	.1	.1	.1	.1	.0	.0	.0	.0	12	.0	.4
TOTAL	58	605	1385	719	212	42	9	5	3035	172	2863
PCT	1.9	19.9	45.6	23.7	7.0	1.4	.3	.2	100.0	5.7	94.3

PERIOD: (OVER-ALL) 1963-1974

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.6	1.1	.0	.0	.0	.0	1.7
1-2	.1	2.7	2.0	.0	.0	.0	4.9
3-4	.0	1.3	5.1	.9	.0	.0	7.3
5-6	.0	.4	2.5	.8	.0	.0	3.8
7	.0	.0	1.5	1.5	.0	.0	3.0
8-9	.0	.1	.8	.8	.0	.0	1.8
10-11	.0	.0	.1	.2	.2	.0	.6
12	.0	.0	.0	.1	.0	.0	.1
13-16	.0	.0	.0	.1	.0	.0	.1
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.7	5.8	12.1	4.4	.2	.0	23.2

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	*	.0	.0	.0	.0	.0	*
1-2	.0	.9	.2	.0	.0	.0	1.1
3-4	.0	.5	.1	.0	.0	.0	.7
5-6	.0	.0	.3	.0	.0	.0	.3
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.7	1.4	.7	.0	.0	.0	2.1

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.4	.0	.0	.0	.0	.5
1-2	.3	.6	.1	.0	.0	.0	1.0
3-4	.0	.1	.1	.0	.0	.0	.3
5-6	.0	.1	.0	.0	.0	.0	.1
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.4	1.3	.2	.0	.0	.0	1.9

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.2	.0	.0	.0	.0	.3
1-2	.0	1.3	.4	.0	.0	.0	1.7
3-4	.0	.1	.3	.0	.0	.0	.4
5-6	.0	*	.0	.0	.0	.0	*
7	.0	.0	.1	.0	.1	.0	.3
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.1	.0	.0	.1
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.1	.0	.0	.1
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.1	1.7	.8	.3	.1	.0	3.0

PERIOD: (OVER-ALL) 1963-1974

MARCH

AREA 0034 POINT MUGU NW
34.0N 121.0W

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

S

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	.1	.1	.0	.0	.0	.6
1-2	.0	1.3	1.1	.0	.0	.0	2.4
3-4	.0	.7	.5	.0	.0	.0	1.2
5-6	.0	.1	1.0	.1	.0	.0	1.3
7	.0	.0	.1	.0	.0	.0	.1
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.3	.1	.0	.0	.4
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	2.4	3.2	.3	.0	.0	6.1

SW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.2	.0	.0	.0	.0	.3
1-2	.0	.7	.3	.0	.0	.0	1.0
3-4	.0	.2	.7	*	.0	.0	.9
5-6	.0	.1	.4	.0	.0	.0	.6
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	*	*	.0	.0	.1
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.1	1.2	1.5	.1	.0	.0	3.0

W

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.4	.4	.0	.0	.0	.0	.8
1-2	.4	3.2	1.2	.0	.0	.0	4.8
3-4	.0	1.6	1.9	.1	.0	.0	3.6
5-6	.0	.6	.6	.1	.0	.0	1.3
7	.0	.0	.8	.2	.0	.0	1.0
8-9	.0	.0	.1	.0	.0	.0	.1
10-11	.0	.0	.0	.3	.0	.0	.3
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.8	5.8	4.6	.7	.0	.0	12.0

NW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.5	.4	.1	.0	.0	.0	1.0	
1-2	.3	4.0	4.2	.0	.0	.0	8.5	
3-4	.1	3.8	8.8	2.1	.0	.0	14.9	
5-6	.0	.3	5.7	2.4	.1	.0	8.5	
7	.0	.1	3.1	.9	.4	.0	4.5	
8-9	.0	.0	1.6	1.8	.0	.0	3.4	
10-11	.0	.0	.9	1.7	.4	.0	3.0	
12	.0	.0	.1	.5	.3	.0	.9	
13-16	.0	.0	.0	.2	.3	.0	.5	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	1.0	8.7	24.7	9.5	1.6	.0	45.4	96.7

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	5.7	3.0	.3	.0	.0	.0	8.9	
1-2	1.2	14.6	9.5	.0	.0	.0	25.3	
3-4	.3	8.5	17.4	3.1	.0	.0	29.4	
5-6	.0	1.8	10.6	3.4	.1	.0	15.9	
7	.0	.1	5.7	2.5	.6	.0	8.9	
8-9	.0	.1	2.5	2.5	.0	.0	5.2	
10-11	.0	.0	1.3	2.5	.6	.0	4.5	
12	.0	.0	.1	.6	.3	.0	1.0	
13-16	.0	.0	.0	.4	.3	.0	.7	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	7.2	28.2	47.5	15.2	1.9	.0	100.0	671

PERIOD: (OVER-ALL) 1949-1974

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	3.1	9.6	13.1	7.0	4.3	1.0	1.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	608	4
6-7	.1	2.3	6.9	7.5	4.8	4.1	1.8	.6	.5	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	440	6
8-9	.0	.4	2.8	3.2	3.0	2.1	1.8	1.1	.8	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	239	7
10-11	.0	.4	.9	1.2	1.2	1.0	.7	.9	.3	.1	.1	.1	.0	.0	.0	.0	.0	.0	.0	107	8
12-13	.0	.0	.8	.1	.5	.2	.2	.1	.5	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	39	8
>13	.0	.0	.0	.3	.1	.4	.1	.1	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	20	9
INDET	1.8	.8	1.4	.8	.4	.2	.1	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	89	3
TOTAL	77	208	399	311	222	140	88	47	39	6	4	1	0	0	0	0	0	0	0	1542	5
PCT	5.0	13.5	25.9	20.2	14.4	9.1	5.7	3.0	2.5	.4	.3	.1	.0	.0	.0	.0	.0	.0	.0	100.0	

APRIL

PERIOD: (PRIMARY) 1939-1974
(OVER-ALL) 1858-1974

AREA 0034 POINT MUGU NW
34.6N 120.9W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	.1	.4	.8	.0	.0	.0	.0	1.2	.6	.1	4.8	.0	3.9		.1	89.2
NE	4.1	.3	1.4	.0	.0	.0	.0	5.5	.9	.0	13.2	.7	4.3		.0	75.4
E	7.9	1.9	5.2	.0	.0	.0	.0	11.5	2.1	.0	21.7	.6	12.5		.0	51.6
SE	6.8	1.3	5.0	.0	.0	.0	.0	12.6	1.3	.0	21.3	.6	8.2		.0	56.0
S	2.6	2.3	3.0	.0	.0	.0	.0	7.4	4.0	.0	13.9	.0	7.3		.0	67.4
SW	1.5	1.6	3.1	.0	.0	.0	.0	5.7	.8	.2	17.9	.0	15.0		.4	60.1
W	.7	.4	1.0	.0	.0	.0	.0	2.0	.6	.1	9.6	.0	15.0		.2	72.7
NW	.2	.4	.9	.0	.0	.0	.0	1.4	.5	.0	6.9	.1	4.9		*	86.2
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	.0
CALM	1.6	.0	1.6	.0	.0	.0	.0	3.1	.0	.0	22.8	.0	9.3		.0	64.8
TOT PCT	1.1	.6	1.5	.0	.0	.0	.0	3.0	.8	*	10.1	.1	8.1		.1	77.8
TOT OBS:	4639															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00&03	1.2	.2	1.3	.0	.0	.0	.0	2.4	.6	.0	8.3	.1	10.2		.2	78.2
06&09	1.0	.3	1.5	.0	.0	.0	.0	2.7	.9	.0	9.6	.1	4.0		.0	82.8
12&15	1.1	1.4	2.0	.0	.0	.0	.0	4.4	1.3	.1	12.5	.1	4.9		.1	76.6
18&21	1.2	.5	1.2	.0	.0	.0	.0	2.6	.6	.1	10.5	.1	11.3		.1	74.9
TOT PCT	1.1	.6	1.5	.0	.0	.0	.0	3.0	.8	*	10.2	.1	8.1		.1	77.7
TOT OBS:	4677															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)								HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	1.2	3.4	6.4	3.0	.4	.0		14.4	15.4	12.2	9.3	16.0	13.2	19.0	17.0	15.6	11.1
NE	1.1	1.4	.4	.1	.0	.0		3.0	6.5	1.0	1.8	2.2	4.3	6.9	6.9	1.1	1.7
E	1.1	1.2	.3	.1	.0	.0		2.7	5.9	.8	1.7	1.7	4.7	4.6	5.1	2.8	1.8
SE	1.0	2.4	.6	.1	.0	.0		4.2	7.5	2.5	3.2	3.6	3.5	4.0	5.7	6.6	3.7
S	1.4	2.5	1.1	.2	.0	.0		5.2	7.6	4.7	4.7	5.3	3.9	3.6	3.8	8.2	5.6
SW	1.3	3.1	.7	.1	.0	.0		5.3	7.0	5.5	4.6	3.5	3.5	2.8	3.3	8.0	7.7
W	2.4	10.2	7.0	1.3	*	.0		20.8	10.2	30.2	22.4	16.1	17.9	13.1	12.8	22.1	25.8
NW	1.9	10.9	18.8	7.7	.7	.0		40.0	15.2	41.9	48.7	46.9	43.6	38.2	38.4	30.5	40.0
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	4.4							4.4	.0	1.2	3.3	4.5	5.6	7.6	6.9	5.2	2.6
TOT OBS	811	1791	1802	640	54	0	5098		11.8	862	359	629	376	668	537	911	756
TOT PCT	15.9	35.1	35.3	12.6	1.1	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)							HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	2.6	5.4	5.2	1.1	*		14.4	15.4	11.4	15.0	18.2	13.5
NE	2.1	.5	.3	*	.0		3.0	6.5	1.2	3.0	6.9	1.4
E	2.0	.5	.2	*	.0		2.7	5.9	1.1	2.8	4.8	2.3
SE	2.2	1.6	.3	*	.0		4.2	7.5	2.7	3.6	4.8	5.3
S	2.9	2.0	.3	.1	.0		5.2	7.6	4.7	4.8	3.7	7.0
SW	2.8	2.2	.3	*	.0		5.3	7.0	5.3	3.5	3.0	7.8
W	7.1	10.5	2.8	.4	.0		20.8	10.2	27.9	16.8	13.0	23.8
NW	5.7	17.1	14.6	2.6	*		40.0	15.2	43.9	45.7	38.3	34.8
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	4.4						4.4	.0	1.8	4.9	7.3	4.0
TOT OBS	1624	2034	1220	216	4	5098		11.8	1221	1005	1205	1667
TOT PCT	31.9	39.9	23.9	4.2	.1		100.0		100.0	100.0	100.0	100.0

APRIL

PERIOD: (PRIMARY) 1939-1974
(OVER-ALL) 1858-1974

AREA 0034 POINT HUGU NW
34.6N 120.9W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS) 11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	1.8	7.1	33.7	39.3	16.8	1.3	.0	13.5	100.0	1221
06&09	4.9	11.7	29.9	38.4	14.0	1.1	.0	12.5	100.0	1005
12&15	7.3	13.5	33.8	34.1	10.7	.6	.0	10.9	100.0	1205
18&21	4.0	13.0	40.4	31.5	9.9	1.2	.0	10.9	100.0	1667
TOT	226	585	1791	1802	640	54	0	11.8		5098
PCT	4.4	11.5	35.1	35.3	12.6	1.1	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	6.9	2.3	3.3	3.0		3.6
NE	2.2	.4	.4	.8		3.0
E	1.2	.2	.4	1.3		4.5
SE	.9	.2	.7	2.7		6.0
S	1.5	.5	1.4	2.9		5.3
SW	1.3	.4	1.3	2.4		5.5
W	9.2	2.0	4.0	4.8		3.7
NW	17.3	4.3	7.2	8.1		3.6
VAR	.0	.0	.0	.0		.0
CALM	1.6	.3	.9	2.2		4.9
TOT OBS	1164	294	542	771	2771	4.0
TOT PCT	42.0	10.6	19.6	27.8	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.2	.1	.3	.8	2.2	1.1	.4	.1	.1	.1	10.2	
NE	.2	.0	.1	*	.5	.2	.1	.0	*	*	2.8	
E	.2	.0	.1	.2	.5	.4	.1	*	.0	*	1.5	
SE	.5	*	.2	.4	.9	.6	.2	*	.1	*	1.5	
S	.3	.1	.1	.6	1.2	.5	.3	*	*	.1	2.6	
SW	.3	*	.1	.6	1.3	.6	.1	*	.1	*	2.2	
W	.4	*	.4	1.1	2.7	1.6	.3	*	.2	.1	13.2	
NW	1.0	.1	.4	2.3	5.2	2.8	.7	.1	.3	.3	23.8	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.4	.0	.1	.4	.8	.7	.2	*	.1	*	2.0	
TOT OBS	98	8	48	178	424	232	65	13	25	18	1662	2771
TOT PCT	3.5	.3	1.7	6.4	15.3	8.4	2.3	.5	.9	.6	60.0	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM) * OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >50YD	* OR >0
* OR >6500	.6	1.3	1.4	1.5	1.5	1.5	1.5	1.5
* OR >9000	.9	1.8	1.9	2.0	2.0	2.0	2.0	2.0
* OR >3500	1.9	3.8	4.2	4.3	4.3	4.4	4.4	4.4
* OR >2000	6.3	11.0	12.3	12.6	12.6	12.7	12.7	12.7
* OR >1000	14.2	22.0	26.0	27.7	27.9	28.0	28.0	28.0
* OR >600	16.7	26.0	31.2	33.8	34.3	34.4	34.4	34.4
* OR >300	17.3	27.0	32.6	35.4	36.0	36.1	36.2	36.2
* OR >150	17.3	27.2	32.8	35.6	36.2	36.4	36.5	36.5
* OR > 0	17.5	27.5	33.2	36.4	37.8	38.3	39.7	40.0
TOTAL	486	764	924	1013	1051	1064	1105	1112

TOTAL NUMBER OF OBS: 2781

PCT FREQ NH <5/8: 60.0

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
32.9	7.9	8.5	5.1	4.9	4.3	6.4	5.0	21.8	3.1	2903

PERIOD: (PRIMARY) 1939-1974
(OVER-ALL) 1858-1974

AREA 0034 POINT MUGU NW
34.0N 120.9W

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	PCP	.0	.0	.0	.0	.0	*	*	.0	.0	.0	*	
<1/2	NO PCP	.2	.1	.1	.2	.2	.1	.3	.6	.0	.2	2.0	
	TOT %	.2	.1	.1	.2	.2	.1	.3	.6	.0	.2	2.1	
	PCP	.0	.0	.0	*	*	*	.1	*	.0	.0	.2	
1/2<1	NO PCP	.1	*	.2	.2	.2	.2	.2	.3	.0	.1	1.5	
	TOT %	.1	*	.2	.2	.2	.2	.3	.3	.0	.1	1.6	
	PCP	.0	*	*	*	*	.1	.1	.1	.0	*	.4	
1<2	NO PCP	.1	*	.1	.2	.2	.3	.6	.5	.0	.3	2.3	
	TOT %	.1	.1	.1	.3	.2	.4	.7	.6	.0	.3	2.7	
	PCP	.1	.1	.1	.2	.1	*	*	.1	.0	*	.8	
2<5	NO PCP	.4	.3	.4	.5	.5	.8	2.0	1.5	.0	.5	6.8	
	TOT %	.5	.4	.5	.7	.6	.8	2.0	1.6	.0	.5	7.7	
	PCP	.1	*	.1	.2	.2	*	.2	.2	.0	.1	1.1	
5<10	NO PCP	2.5	1.1	.9	1.1	1.5	1.4	6.8	8.7	.0	1.1	25.0	
	TOT %	2.6	1.1	1.0	1.3	1.6	1.5	6.9	8.8	.0	1.1	26.1	
	PCP	*	.0	*	.1	.1	.1	.1	.1	.0	.0	.5	
10+	NO PCP	11.1	1.5	.8	1.5	2.6	2.4	11.1	26.5	.0	1.9	59.3	
	TOT %	11.1	1.5	.9	1.6	2.7	2.5	11.2	26.6	.0	1.9	59.8	
	TOT OBS												4637
	TOT PCT	14.6	3.1	2.8	4.2	5.5	5.6	21.5	38.6	.0	4.2	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	0-3	.1	*	.1	.1	.1	*	.1	.2	.0	.2	.7	
<1/2	4-10	.1	.1	*	.2	.1	.1	.2	.5	.0		1.3	
	11-21	.1	.0	.0	*	.0	*	*	.3	.0		.4	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.2	.1	.1	.2	.2	.2	.3	.9	.0	.2	2.5	
	0-3	*	*	.1	.1	.1	.1	.1	.1	.0	.1	.6	
1/2<1	4-10	.1	.0	.1	.1	*	.1	.2	.1	.0		.6	
	11-21	*	.0	*	*	*	*	.1	.1	.0		.3	
	22+	.0	.0	.0	.0	.0	.0	.0	*	.0		*	
	TOT %	.1	*	.2	.2	.2	.2	.3	.4	.0	.1	1.6	
	0-3	.1	.1	.1	.1	.1	.1	.1	.1	.0	.3	1.0	
1<2	4-10	*	*	.1	.1	.1	.2	.5	.4	.0		1.4	
	11-21	*	.0	.0	*	*	*	.1	.2	.0		.4	
	22+	.0	.0	.0	.0	.0	*	.0	*	.0		*	
	TOT %	.1	.1	.1	.3	.2	.3	.8	.7	.0	.3	2.8	
	0-3	.2	.2	.3	.3	.2	.3	.3	.3	.0	.6	2.7	
2<5	4-10	.2	.2	.2	.3	.2	.4	1.2	.9	.0		3.6	
	11-21	.1	.0	.1	.1	.1	.1	.4	.5	.0		1.4	
	22+	.1	.0	.0	*	*	.0	*	.1	.0		.3	
	TOT %	.6	.4	.5	.7	.6	.8	2.0	1.9	.0	.6	8.0	
	0-3	.3	.5	.4	.3	.4	.3	.8	.6	.0	1.1	4.7	
5<10	4-10	.7	.5	.5	.7	.8	.9	3.4	2.8	.0		10.4	
	11-21	1.0	.1	.1	.2	.3	.2	2.1	3.5	.0		7.4	
	22+	.6	*	*	*	.1	*	.2	1.8	.0		2.8	
	TOT %	2.6	1.1	1.0	1.3	1.6	1.4	6.6	8.7	.0	1.1	25.3	
	0-3	.6	.3	.3	.2	.5	.5	1.0	.8	.0	2.0	6.2	
10+	4-10	2.4	.6	.4	1.0	1.3	1.4	4.7	6.1	.0		18.0	
	11-21	5.2	.3	.1	.3	.7	.4	4.4	13.9	.0		25.3	
	22+	2.7	.1	.1	.1	.1	*	1.0	6.2	.0		10.4	
	TOT %	10.9	1.4	.9	1.6	2.6	2.4	11.1	26.9	.0	2.0	59.8	
	TOT OBS												4966
	TOT PCT	14.5	3.0	2.8	4.2	5.3	5.3	21.1	39.5	.0	4.3	100.0	

APRIL

PERIOD: (PRIMARY) 1939-1974
(OVER-ALL) 1858-1974

AREA 0034 POINT MUGU NW
34.0N 120.9W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00&03	2.4	.3	1.6	7.0	13.7	7.8	2.0	.1	.9	.3	36.0	64.0	703
06&09	3.1	.3	1.3	4.7	14.4	7.0	1.7	.6	1.0	.4	34.5	65.5	687
12&15	6.0	.2	1.7	6.4	15.1	9.9	2.4	.5	1.0	.8	43.9	56.1	629
18&21	2.8	.4	2.1	7.2	16.8	8.3	2.9	.6	.7	1.0	42.6	57.4	823
TOT	99	8	48	180	428	233	65	13	25	18	1117	1725	2842
PCT	3.5	.3	1.7	6.3	15.1	8.2	2.3	.5	.9	.6	39.3	60.7	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00&03	.9	1.8	2.8	8.1	25.1	61.4	1196
06&09	2.4	1.9	2.7	6.7	23.6	62.6	995
12&15	4.1	2.0	2.9	7.0	24.7	59.4	1175
18&21	2.7	1.0	2.9	9.7	26.9	56.8	1638
TOT	127	80	141	405	1265	2986	5004
PCT	2.5	1.6	2.8	8.1	25.3	59.7	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET, NH >4/8), BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	2.5	5.6	21.0	19.9	59.1	680
06&09	3.1	5.3	18.3	19.9	61.8	673
12&15	6.1	9.5	23.1	23.4	53.5	619
18&21	2.7	6.1	21.3	24.6	54.1	809
TOT	98	182	581	613	1587	2781
PCT	3.5	6.5	20.9	22.0	57.1	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
75/79	.0	.0	*	*	.0	.0	.0	.0	2	.1
70/74	.0	*	.0	.1	.2	*	.0	*	12	.4
65/69	.1	*	.2	.7	1.2	1.1	.4	.1	122	3.8
60/64	*	.1	*	1.1	4.2	7.7	3.1	.6	537	16.9
55/59	*	.0	.2	1.0	3.6	12.7	19.7	8.5	1451	45.7
50/54	.0	.0	*	.3	2.8	5.6	15.4	7.7	1009	31.7
45/49	.0	.0	*	.1	.1	.3	.6	.4	43	1.4
40/44	.0	.0	.0	.0	*	.0	*	.0	2	.1
TOTAL	5	5	17	106	385	868	1242	550	3178	100.0
PCT	.2	.2	.5	3.3	12.1	27.3	39.1	17.3		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.0	.0	.0	*	*	.0	.0	.0
*	.0	*	*	.1	.1	.1	*	.0	.1
.2	.1	.1	.1	.7	.4	1.4	.5	.0	.3
1.0	.2	.4	1.0	1.4	1.9	6.6	3.8	.0	.7
7.5	1.1	1.1	1.9	2.5	2.1	9.9	17.2	.0	2.2
6.0	1.0	.8	.9	1.0	.9	3.9	16.4	.0	.8
.2	.4	.1	.0	*	.0	.1	.6	.0	*
.0	.1	.0	.0	.0	.0	.0	.0	.0	.0
15.0	2.8	2.5	4.0	5.7	5.4	22.0	38.6	.0	4.1

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00&03	76	68	64	57	52	51	47	57.6	1221
06&09	72	64	60	55	51	48	45	54.8	1008
12&15	73	62	59	54	50	46	42	54.4	1210
18&21	82	69	66	58	52	50	41	58.2	1672
TOT	82	68	64	56	51	48	41	56.5	5111

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00&03	.2	3.7	14.8	29.7	36.6	15.0	79	846
06&09	.0	2.3	5.7	18.5	49.1	24.4	84	615
12&15	.0	2.7	6.2	19.5	45.4	26.2	84	692
18&21	.3	6.1	17.5	35.8	30.8	9.5	77	1055
TOT	5	128	388	878	1251	558	80	3208

PERIOD: (PRIMARY) 1939-1974
(OVER-ALL) 1858-1974

AREA 0034 POINT HUGU NW
34.6N 120.9W

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	45 48	49 52	53 56	57 60	61 64	65 68	69 72	73 76	77 80	TOT	W FOG	WO FOG
17/19	.0	.0	.0	.0	.0	*	*	.0	*	3	.0	.1
14/16	.0	.0	.0	.0	*	.1	.1	.1	.0	9	.0	.3
11/13	.0	.0	*	*	.2	.3	.1	*	.0	20	.0	.7
9/10	.0	.0	.1	.2	.5	.4	.1	.0	.0	38	.0	1.3
7/8	.0	.0	.2	.7	1.0	.6	*	.0	.0	77	.1	2.4
6	.0	.0	.4	.8	.9	.1	.0	.0	.0	65	.1	2.1
5	.0	.0	.7	1.5	1.1	.1	.0	.0	.0	101	.1	3.3
4	.0	.1	1.3	3.3	1.5	*	.0	.0	.0	186	.4	5.8
3	.0	.2	1.7	3.0	.7	*	.0	.0	.0	168	.4	5.1
2	.0	.9	4.3	4.2	.7	*	.0	.0	.0	308	1.0	9.3
1	.0	.7	4.6	2.9	.4	*	.0	.0	.0	259	.5	8.1
0	*	2.8	10.2	4.1	.5	*	.0	.0	.0	529	1.0	16.6
-1	*	1.8	6.9	2.2	.1	.0	*	.0	.0	333	.8	10.3
-2	.1	3.6	7.4	1.5	.1	.0	.0	.0	.0	384	.9	11.8
-3	*	1.9	3.5	.3	*	.0	.0	.0	.0	175	.2	5.6
-4	.2	2.4	2.8	.3	.1	.0	.0	.0	.0	175	.3	5.5
-5	.1	1.0	.9	.1	*	.0	.0	.0	.0	65	*	2.1
-6	*	.7	.8	.1	.0	.0	.0	.0	.0	49	*	1.6
-7/-8	.1	.6	.4	.1	.0	.0	.0	.0	.0	34	.0	1.1
-9/-10	.0	.4	.3	*	.0	.0	.0	.0	.0	24	.0	.8
-11/-13	.0	.1	.1	.1	.0	.0	.0	.0	.0	8	.0	.3
-14/-16	.0	*	.0	.0	.0	.0	.0	.0	.0	1	.0	*
-17/-19	.0	.0	.1	.0	.0	.0	.0	.0	.0	2	.0	.1
TOTAL	19		1405		238		12		1		172	2841
		521		764		50		3		3013		
PCT	.6	17.3	46.6	25.4	7.9	1.7	.4	.1	*	100.0	5.7	94.3

PERIOD: (OVER-ALL) 1963-1974

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.6	.0	.0	.0	.0	.7
1-2	.1	1.6	1.3	.0	.0	.0	2.9
3-4	.0	1.6	4.3	.9	.0	.0	6.8
5-6	.0	.7	3.0	.9	.1	.0	4.7
7	.0	.2	1.8	1.9	.0	.0	3.9
8-9	.0	.0	.7	.9	.0	.0	1.6
10-11	.0	.0	.1	.5	.2	.0	.8
12	.0	.0	.0	.4	.1	.0	.5
13-16	.0	.0	.0	.1	.1	.0	.2
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	4.7	11.1	5.5	.6	.0	22.1

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.0	.0	.0	.0	.0	.1
1-2	*	.0	.3	.0	.0	.0	.3
3-4	.0	.3	.2	.0	.0	.0	.5
5-6	.0	.0	.1	.0	.0	.0	.1
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.3	.0	.0	.0	.3
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.1	.0	.0	.1
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	.3	.8	.1	.0	.0	1.4

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.2	.0	.0	.0	.0	.2
3-4	.0	.1	.0	.1	.0	.0	.2
5-6	.0	.0	.1	.0	.0	.0	.1
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.3	.1	.1	.0	.0	.5

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.6	.0	.0	.0	.0	.6
1-2	.2	1.0	.1	.0	.0	.0	1.3
3-4	.1	.2	.7	.3	.0	.0	1.3
5-6	.0	*	*	.1	.0	.0	.2
7	.0	.0	.0	*	.0	.0	*
8-9	.0	.0	.0	.1	.0	.0	.1
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	1.8	.8	.6	.0	.0	3.5

PERIOD: (OVER-ALL) 1963-1974

APRIL

AREA 0034 POINT MUGU NW
34.6N 120.9W

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

S

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	.5	.0	.0	.0	.0	.7
1-2	.2	.9	.1	.0	.0	.0	1.2
3-4	.0	.3	1.1	.0	.0	.0	1.4
5-6	.0	.5	.5	.1	.0	.0	1.1
7	.0	.0	.0	.2	.0	.0	.2
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.5	2.2	1.7	.3	.0	.0	4.7

SW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.0	.0	.0	.0	.0	.1
1-2	.3	1.2	.1	.0	.0	.0	1.6
3-4	.0	.2	.7	.0	.0	.0	.9
5-6	.0	.1	.5	*	.0	.0	.6
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	*	.0	.0	.0	*
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.4	1.6	1.2	*	.0	.0	3.2

W

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.4	.6	.0	.0	.0	.0	1.0
1-2	.4	1.3	1.0	.0	.0	.0	2.8
3-4	.1	1.0	2.6	.3	.0	.0	3.9
5-6	.0	.3	1.3	.9	.0	.0	2.5
7	.0	.0	.8	.2	.1	.0	1.1
8-9	.0	.0	.6	.1	.0	.0	.7
10-11	.0	.0	.2	.1	.0	.0	.3
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.3	.2	.0	.0	.5
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.9	3.2	6.8	1.8	.1	.0	12.8

NW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.2	.8	.0	.0	.0	.0	.9	
1-2	.3	4.8	3.0	.0	.0	.0	8.1	
3-4	.0	1.8	7.9	3.0	.0	.0	12.8	
5-6	.0	1.3	5.2	2.9	.1	.0	9.6	
7	.0	.2	3.5	4.1	.4	.0	8.2	
8-9	.0	.0	2.7	2.1	.1	.0	4.9	
10-11	.0	.1	.4	1.0	*	.0	1.6	
12	.0	.1	.4	.7	*	.0	1.2	
13-16	.0	.0	.1	.5	*	.0	.6	
17-19	.0	.0	.0	.1	.5	.0	.7	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.4	9.2	23.2	14.4	1.3	.0	48.6	96.9

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	4.7	3.0	.0	.0	.0	.0	7.7	
1-2	1.6	11.0	5.9	.0	.0	.0	18.4	
3-4	.3	5.6	17.2	4.6	.0	.0	27.6	
5-6	.0	2.9	10.8	5.0	.3	.0	18.9	
7	.0	.4	6.0	6.4	.5	.0	13.3	
8-9	.0	.0	3.9	3.3	.1	.0	7.3	
10-11	.0	.1	1.0	1.6	.3	.0	3.0	
12	.0	.1	.4	1.0	.1	.0	1.7	
13-16	.0	.0	.4	.8	.1	.0	1.3	
17-19	.0	.0	.0	.3	.5	.0	.8	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
								767
TOT PCT	6.5	23.1	45.6	22.8	2.0	.0	100.0	

PERIOD: (OVER-ALL) 1949-1974

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	1.4	10.5	13.3	7.5	3.6	1.5	.7	.7	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	622	4
6-7	.1	1.0	6.7	7.3	5.6	3.7	2.0	.8	.6	.6	.1	.0	.0	.0	.0	.0	.0	.0	.0	448	6
8-9	.1	.3	1.8	2.8	3.6	2.8	2.8	1.1	.9	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	254	8
10-11	.0	.5	.4	1.0	1.4	1.3	1.0	.7	1.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	117	8
12-13	.0	.0	.1	.1	.1	.4	.1	.3	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	23	9
>13	.0	.0	.0	.1	.4	.0	.3	.5	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	24	10
INDET	3.0	.9	.8	.2	.3	.3	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	89	2
TOTAL	71	207	364	300	234	158	108	68	51	14	2	0	0	0	0	0	0	0	0	1577	6
PCT	4.5	13.1	23.1	19.0	14.8	10.0	6.8	4.3	3.2	.9	.1	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

MAY

PERIOD: (PRIMARY) 1938-1973
(OVER-ALL) 1875-1973

AREA 0034 POINT HUGU NW
34.6N 121.0W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	.4	.4	.7	.0	.0	.0	.0	1.4	.3	.2	8.7	.0	3.5		.1	85.8
NE	1.1	.5	.3	.0	.0	.0	.0	2.1	.5	.0	7.2	.0	12.8		.0	77.3
E	.6	.6	1.8	.0	.0	.0	.0	3.0	1.2	.0	24.8	.0	12.1		.0	58.9
SE	.4	.0	2.9	.0	.0	.0	.0	2.9	.8	.0	28.9	.0	16.7		.0	50.6
S	.9	.6	.9	.0	.0	.0	.0	2.0	.0	.0	27.0	.6	17.9		.0	52.6
SW	1.0	.0	2.3	.0	.0	.0	.0	3.1	.5	.0	17.8	.4	20.3		.0	57.9
W	.4	.2	.8	.0	.0	.0	.1	1.3	.4	.2	10.6	.0	15.1		.2	72.2
NW	.3	.5	.9	.0	.0	.0	.1	1.6	.4	.1	7.0	.1	4.4		.1	86.3
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	.0
CALM	.7	.0	2.7	.0	.0	.0	.0	3.4	.3	.0	26.1	.0	12.7		.0	57.4
TOT PCT	.4	.3	1.1	.0	.0	.0	*	1.8	.4	.1	11.5	.1	9.3		.1	76.7
TOT OBS:	4549															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00&03	.2	.3	.7	.0	.0	.0	.0	1.0	.3	.0	9.0	.0	11.0		.1	78.6
06&09	.8	.6	1.3	.0	.0	.0	.1	2.6	.3	.2	9.5	.2	9.2		.1	81.8
12&15	.6	.5	2.1	.0	.0	.0	.0	3.1	.8	.2	13.2	.1	6.3		.1	76.2
18&21	.2	.1	.5	.0	.0	.0	.1	.8	.3	.0	13.9	.1	12.8		.1	72.0
TOT PCT	.4	.3	1.1	.0	.0	.0	*	1.8	.4	.1	11.7	.1	9.3		.1	76.6
TOT OBS:	4584															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)								HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	1.1	3.5	6.0	2.8	.1	.0		13.5	14.9	13.6	7.1	15.1	11.8	16.5	16.3	13.4	11.6
NE	.8	.8	.3	*	.0	.0		1.9	5.9	.3	.4	1.5	3.3	4.7	3.1	1.8	.6
E	.8	.8	.2	*	.0	.0		1.8	5.7	.3	.4	.9	3.6	3.6	4.2	1.6	.5
SE	.8	1.5	.3	*	.0	.0		2.6	6.1	1.2	1.3	1.8	3.9	2.7	4.5	3.7	2.0
S	1.6	1.7	.4	*	.0	.0		3.7	5.3	3.4	1.8	2.9	2.2	2.7	2.2	6.0	5.4
SW	1.6	3.2	.7	*	.0	.0		5.6	6.3	7.6	4.4	3.6	3.8	3.1	3.0	7.4	8.3
W	2.7	11.9	6.2	1.1	.1	.0		22.0	9.7	28.2	32.6	18.7	19.1	12.8	15.1	23.6	25.8
NW	1.4	12.0	20.3	8.2	.8	.0		42.8	15.4	43.7	48.9	48.7	45.1	44.4	39.3	34.7	43.1
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	6.2							6.2	.0	1.7	2.9	6.7	7.3	9.4	12.3	7.8	2.6
TOT OBS	857	1784	1737	617	50	0	5045		11.6	844	340	595	412	681	553	858	762
TOT PCT	17.0	35.4	34.4	12.2	1.0	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	2.3	5.5	4.8	.9	.0		13.5	14.9	11.7	13.7	16.4	12.6
NE	1.2	.6	.1	.0	.0		1.9	5.9	.4	2.2	4.0	1.3
E	1.2	.5	.1	.0	.0		1.8	5.7	.3	2.0	3.9	1.1
SE	1.6	.9	.1	*	.0		2.6	6.1	1.3	2.7	3.5	2.9
S	2.6	1.1	*	*	.0		3.7	5.3	3.0	2.6	2.5	5.7
SW	3.4	2.0	.2	*	.0		5.6	6.3	6.7	3.7	3.1	7.8
W	7.5	11.6	2.6	.3	.0		22.0	9.7	29.3	18.9	13.9	24.7
NW	5.4	19.3	15.0	3.0	.1		42.8	15.4	45.2	47.2	42.1	38.7
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	6.2						6.2	.0	2.0	7.0	10.7	5.4
TOT OBS	1579	2092	1153	214	7	5045		11.6	1184	1007	1234	1620
TOT PCT	31.3	41.5	22.9	4.2	.1		100.0		100.0	100.0	100.0	100.0

PERIOD: (PRIMARY) 1938-1973
(OVER-ALL) 1875-1973

AREA 0034 POINT HUGU NW
34.0N 121.0W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS) 11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	2.0	7.2	35.7	37.2	16.2	1.6	.0	13.3	100.0	1184
06&09	7.0	8.9	31.4	37.7	13.7	1.3	.0	12.4	100.0	1007
12&15	10.7	14.2	31.7	32.3	10.5	.6	.0	10.6	100.0	1234
18&21	5.4	12.0	40.4	31.9	9.8	.6	.0	10.7	100.0	1620
TOT	313	544	1784	1737	617	30	0	11.6		5045
PCT	6.2	10.8	35.4	34.4	12.2	1.0	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	4.6	1.4	3.3	5.0		4.7
NE	1.7	.1	.2	.6		2.5
E	1.0	.2	.3	.8		3.9
SE	.6	.2	.6	1.5		5.6
S	1.0	.2	.7	1.6		5.4
SW	2.0	.5	1.0	2.0		4.6
W	11.9	1.3	3.6	5.4		3.4
NW	16.2	3.9	7.2	12.4		4.2
VAR	.0	.0	.0	.0		.0
CALM	3.7	.4	.3	2.8		3.8
TOT OBS	1192	226	479	891	2788	4.1
TOT PCT	42.8	8.1	17.2	32.0	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.7	*	.4	1.4	3.0	1.5	.3	.1	.1	.0	6.8	
NE	.0	.0	*	.1	.4	*	*	.0	*	.0	2.0	
E	.1	.0	*	.2	.5	*	*	.0	.0	.0	1.3	
SE	.3	.0	*	.5	.4	.4	.2	*	*	.1	1.0	
S	.3	.0	.1	.3	.7	.5	.2	*	.1	*	1.3	
SW	.1	.0	.3	.6	1.1	.6	*	.0	.0	*	2.8	
W	.7	.0	.3	1.3	3.0	1.6	.3	.1	.1	.1	14.7	
NW	1.3	.2	.8	3.1	7.2	3.3	1.0	.2	.2	.1	22.4	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.8	.0	.3	.5	.6	.6	.1	*	.0	.1	4.2	
TOT OBS	120	6	61	223	472	239	56	13	11	12	1575	2788
TOT PCT	4.3	.2	2.2	8.0	16.9	8.6	2.0	.5	.4	.4	56.5	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM) = OR >10	= OR >5	= OR >2	= OR >1	= OR >1/2	= OR >1/4	= OR >50YD	= OR >0
= OR >6500	.6	.8	.8	.8	.8	.8	.8	.8
= OR >5000	.9	1.3	1.3	1.3	1.3	1.3	1.3	1.3
= OR >3500	2.0	3.1	3.2	3.3	3.3	3.3	3.3	3.3
= OR >2000	7.1	11.1	11.8	11.9	11.9	11.9	11.9	11.9
= OR >1000	17.0	25.0	27.5	28.6	28.8	28.8	28.8	28.8
= OR >600	20.4	30.0	34.0	36.3	36.8	36.8	36.8	36.8
= OR >300	21.0	31.5	35.8	38.3	38.9	38.9	38.9	38.9
= OR >150	21.0	31.6	36.0	38.5	39.0	39.1	39.1	39.1
= OR > 0	21.0	31.9	36.6	39.8	41.6	42.5	43.3	43.4
TOTAL	589	893	1026	1113	1166	1190	1212	1215

TOTAL NUMBER OF OBS: 2800

PCT FREQ NH <5/8: 56.6

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
33.2	7.3	7.4	4.5	3.2	2.7	5.8	6.4	25.6	3.9	2903

PERIOD: (PRIMARY) 1938-1973
(OVER-ALL) 1875-1973

TABLE 8

AREA 0034 POINT MUGU NW
34.0N 121.0W

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	*	.0	*	*	.0	.0	.0	*	.0	.0	.1	
	NO PCP	.2	.0	.1	.1	.3	.1	.4	.6	.0	.4	2.3	
	TOT %	.2	.0	.1	.1	.3	.1	.4	.6	.0	.4	2.4	
1/2<1	PCP	*	*	*	*	.0	.0	*	*	.0	*	.2	
	NO PCP	.2	.0	*	.1	.2	.1	.2	.4	.0	.2	1.6	
	TOT %	.2	*	.1	.2	.2	.1	.2	.5	.0	.2	1.7	
1<2	PCP	.0	.0	.0	*	*	*	*	*	.0	*	.1	
	NO PCP	.2	.1	.2	.2	.3	.4	.7	.5	.0	.3	2.9	
	TOT %	.2	.1	.2	.3	.3	.5	.8	.5	.0	.3	3.1	
2<5	PCP	*	*	.0	*	*	*	*	.1	.0	*	.3	
	NO PCP	.7	.2	.2	.3	.5	.7	2.2	1.4	.0	.9	7.2	
	TOT %	.7	.2	.2	.3	.5	.8	2.2	1.5	.0	1.0	7.4	
5<10	PCP	.1	*	*	*	*	.1	.1	.4	.0	.1	.9	
	NO PCP	3.3	.6	.5	.8	1.1	1.9	7.6	10.5	.0	2.2	28.5	
	TOT %	3.5	.6	.5	.8	1.1	2.0	7.8	10.9	.0	2.3	29.5	
10+	PCP	.0	.0	.0	.0	*	.0	.1	.1	.0	*	.3	
	NO PCP	9.0	1.2	.7	.9	1.4	2.3	10.9	27.3	.0	2.1	55.7	
	TOT %	9.0	1.2	.7	.9	1.4	2.3	11.0	27.4	.0	2.1	56.0	
	TOT OBS												
	TOT PCT	13.8	2.0	1.8	2.6	3.9	5.8	22.3	41.4	.0	6.4	100.0	4543

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	*	.0	*	.1	.2	.1	.1	.1	.0	.4	.9	
	4-10	.1	.0	*	*	.1	.1	.2	.3	.0		.9	
	11-21	.1	.0	*	*	*	.0	.1	.3	.0		.6	
	22+	*	.0	.0	.0	.0	.0	*	.1	.0		.1	
	TOT %	.2	.0	.1	.1	.3	.1	.4	.8	.0	.4	2.5	
1/2<1	0-3	*	*	.1	.1	.2	.1	.1	.1	.0	.2	.8	
	4-10	*	.0	.0	.1	.1	*	.2	.2	.0		.6	
	11-21	.1	.0	.0	.0	.0	.0	.0	.2	.0		.3	
	22+	.0	.0	.0	.0	.0	*	*	.0	.0		*	
	TOT %	.2	*	.1	.2	.2	.1	.2	.5	.0	.2	1.7	
1<2	0-3	.1	*	.1	.1	.2	.3	.1	.1	.0	.3	1.3	
	4-10	*	*	*	.2	.1	.1	.6	.3	.0		1.4	
	11-21	.1	*	.0	*	*	.1	.1	.3	.0		.5	
	22+	.0	.0	.0	.0	.0	.0	.0	*	.0		*	
	TOT %	.2	.1	.2	.3	.3	.5	.8	.7	.0	.5	3.3	
2<5	0-3	.2	.2	.1	.2	.2	.3	.6	.2	.0	1.0	3.1	
	4-10	.3	*	.1	.1	.2	.4	1.4	.7	.0		3.3	
	11-21	.2	.0	.0	*	*	*	.2	.9	.0		1.4	
	22+	.1	.0	.0	.0	.0	.0	*	.3	.0		.4	
	TOT %	.8	.2	.3	.3	.5	.8	2.3	2.1	.0	1.0	8.2	
5<10	0-3	.4	.3	.2	.2	.5	.5	1.0	.5	.0	2.3	5.9	
	4-10	.8	.2	.2	.4	.5	1.2	4.3	3.2	.0		10.9	
	11-21	1.4	.1	*	.1	.1	.1	1.9	4.9	.0		8.6	
	22+	.7	*	.0	*	.0	.0	.2	2.1	.0		3.1	
	TOT %	3.3	.6	.5	.8	1.1	1.9	7.4	10.7	.0	2.3	28.6	
10+	0-3	.4	.3	.2	.2	.3	.3	.8	.5	.0	2.1	5.1	
	4-10	2.2	.5	.3	.7	.8	1.4	5.3	7.1	.0		18.4	
	11-21	4.1	.2	.2	.1	.2	.5	4.0	13.4	.0		22.7	
	22+	2.1	*	*	*	*	*	.8	6.5	.0		9.6	
	TOT %	8.9	1.1	.8	1.0	1.4	2.2	11.0	27.5	.0	2.1	55.8	
	TOT OBS												
	TOT PCT	13.6	1.9	1.8	2.7	3.7	5.6	22.1	42.2	.0	6.3	100.0	4860

MAY

PERIOD: (PRIMARY) 1938-1973
(OVER-ALL) 1875-1973

AREA 0034 POINT HUGU NW
34.6N 121.0W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00&03	3.0	.3	1.7	8.7	15.2	8.5	1.5	.6	.0	.7	40.1	59.9	726
06&09	4.7	.3	1.2	5.0	15.4	8.4	1.8	.0	.5	.5	37.7	62.3	663
12&15	5.9	.3	3.1	9.3	17.8	8.9	1.2	.6	.4	.4	47.9	52.1	676
18&21	3.6	.0	2.6	8.4	18.5	8.2	3.2	.6	.6	.1	46.0	54.0	772
TOT	121	6	61	224	475	241	56	13	11	12	1220	1617	2837
PCT	4.3	.2	2.2	7.9	16.7	8.5	2.0	.5	.4	.4	43.0	57.0	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00&03	1.4	1.7	2.2	8.4	28.3	58.0	1141
06&09	2.5	1.1	2.5	5.8	28.0	60.1	994
12&15	3.3	2.8	3.5	7.1	28.3	55.0	1193
18&21	2.8	1.1	4.6	10.5	29.1	51.9	1569
TOT	124	81	164	403	1395	2730	4897
PCT	2.5	1.7	3.3	8.2	28.5	55.7	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET, NH >4/8), BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	3.1	5.6	20.3	23.7	56.0	713
06&09	4.6	6.4	17.4	24.1	58.5	656
12&15	5.9	10.5	24.5	25.4	50.2	666
18&21	3.7	6.7	21.7	26.7	51.6	765
TOT	119	203	588	700	1512	2800
PCT	4.3	7.3	21.0	25.0	54.0	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
80/84	*	.0	*	.0	.0	.0	.0	.0	2	.1
75/79	.0	.0	.1	.0	*	.0	.0	.0	3	.1
70/74	*	.1	.0	.2	.3	.1	.1	*	25	.9
65/69	.0	.0	.0	.2	2.0	2.7	.6	.1	160	5.6
60/64	.0	.0	.0	.2	3.0	9.7	6.4	1.6	599	20.8
55/59	.0	.0	*	.3	1.9	12.7	25.5	10.5	1467	51.0
50/54	.0	.0	.0	.0	.7	2.9	10.8	6.8	612	21.3
45/49	.0	.0	.0	.0	.0	.1	.1	.1	6	.2
TOTAL	2	4	4	26	229	809	1249	551	2874	100.0
PCT	.1	.1	.1	.9	8.0	28.1	43.5	19.2		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.1	*	.0	.0	.0	.0	.0	.0	.0	.0
*	.0	.0	.0	.0	.0	.0	.1	.0	.0
*	.1	.1	*	.2	.1	.2	.1	.0	*
.3	.1	.1	.2	.9	1.3	1.5	.9	.0	.2
1.9	.4	.3	.8	1.3	2.3	7.2	5.0	.0	1.6
7.7	1.1	.7	1.1	1.4	2.2	10.6	23.3	.0	3.0
4.3	.6	.4	.2	.4	.5	2.4	11.0	.0	1.5
.1	*	.0	.0	.0	*	.0	.1	.0	*
14.3	2.2	1.6	2.4	4.3	6.4	21.9	40.5	.0	6.4

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00&03	81	69	66	58	54	51	45	58.9	1180
06&09	80	64	61	56	52	50	47	56.0	1012
12&15	76	64	61	55	51	49	46	55.4	1242
18&21	84	70	67	59	53	50	43	59.3	1625
TOT	84	69	65	57	52	50	43	57.6	5059

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00&03	.0	1.3	10.4	33.3	43.0	11.9	81	762
06&09	.0	.5	2.7	20.0	49.3	27.6	85	566
12&15	.0	1.2	2.6	16.6	46.8	32.8	86	664
18&21	.2	1.5	13.3	37.0	37.5	10.4	79	907
TOT	2	35	232	813	1258	559	82	2899

PERIOD: (PRIMARY) 1938-1973
(OVER-ALL) 1875-1973

AREA 0034 POINT MUGU NW
34.6N 121.0W

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	41 44	45 48	49 52	53 56	57 60	61 64	65 68	69 72	73 76	77 80	TOT	W FOG	WO FOG
20/22	.0	.0	.0	.0	.0	.0	.0	.0	*	.0	1	*	.0
17/19	.0	.0	.0	.0	.0	.0	*	*	*	.0	3	*	.1
14/16	.0	.0	.0	.0	.0	.0	.1	*	.1	*	6	.0	.2
11/13	.0	.0	.0	*	.1	.2	.4	.1	*	.0	27	.0	.9
9/10	.0	.0	.0	*	.3	.8	.4	.3	.0	.0	56	.1	1.7
7/8	.0	.0	.0	.2	1.0	1.3	.6	.2	.0	.0	96	.2	3.0
6	.0	.0	*	.3	.6	.5	.2	.1	.0	.0	53	.1	1.6
5	.0	.0	.0	.7	1.7	1.7	.4	.0	.0	.0	137	.5	4.0
4	.0	.0	.1	1.1	3.4	2.4	.2	.0	.0	.0	219	.6	6.6
3	.0	.0	.1	1.4	2.5	.6	.1	.0	.0	.0	140	.4	4.3
2	.0	*	.6	5.0	5.3	1.7	*	.0	.0	.0	381	1.1	11.5
1	.0	.0	.3	4.1	3.7	.4	.1	.0	.0	.0	257	.7	7.8
0	.0	.2	1.3	8.4	6.5	1.2	.3	.0	.0	.0	537	1.7	16.0
-1	.0	.0	1.0	5.4	3.2	.2	.0	.0	.0	.0	294	.7	9.0
-2	.0	.1	1.7	7.3	2.7	.2	*	.0	.0	.0	361	1.1	10.9
-3	.0	.0	.7	3.4	1.0	.1	.0	.0	.0	.0	156	.4	4.8
-4	.0	*	.8	2.2	.9	.2	.0	.0	.0	.0	124	.4	3.7
-5	.0	.1	.7	1.6	.5	.1	.0	.0	.0	.0	87	.3	2.6
-6	.0	.0	.4	.7	.2	.0	.0	.0	.0	.0	38	.1	1.1
-7/-8	.0	*	.3	.4	.2	*	.1	.0	.0	.0	33	.3	.8
-9/-10	.0	.0	.1	.3	.0	.0	.0	.0	.0	.0	12	.0	.4
-11/-13	*	*	*	.1	*	.0	.0	.0	.0	.0	8	*	.2
-14/-16	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	2	.0	.1
TOTAL	1	13	242	1291	1022	346	87	20	5	1	3028	265	2763
PCT	*	.4	8.0	42.6	33.8	11.4	2.9	.7	.2	*	100.0	8.8	91.2

PERIOD: (OVER-ALL) 1963-1973

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	.4	.0	.0	.0	.0	.7
1-2	.2	1.8	1.5	.0	.0	.0	3.5
3-4	.1	1.9	3.8	.6	.0	.0	6.5
5-6	.0	.2	2.9	1.2	.1	.0	4.4
7	.0	.1	1.5	1.2	.0	.0	2.8
8-9	.0	.1	.4	1.2	.1	.0	1.8
10-11	.0	.0	.1	.8	.0	.0	.9
12	.0	.0	.1	.1	.0	.0	.2
13-16	.0	.0	.0	.2	.1	.0	.3
17-19	.0	.0	.3	.0	.0	.0	.3
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.6	4.6	10.5	5.4	.3	.0	21.4

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	*	.0	.0	.0	.0	*
1-2	.2	.6	.2	.0	.0	.0	1.0
3-4	.0	.3	*	.0	.0	.0	.3
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	*	.0	*	.0	.0	.1
10-11	.0	.0	.1	.0	.0	.0	.1
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	.9	.4	*	.0	.0	1.5

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.1	.0	.0	.0	.0	.1
1-2	.0	.1	.2	.0	.0	.0	.3
3-4	.0	.1	.1	.0	.0	.0	.2
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.3	.3	.0	.0	.0	.7

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	*	.0	.0	.0	.0	*
1-2	.0	.6	.0	.0	.0	.0	.6
3-4	.0	.2	.1	.0	.0	.0	.3
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.1	.0	.0	.0	.1
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	*	.0	.0	*
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.8	.2	*	.0	.0	1.0

PERIOD: (OVER-ALL) 1963-1973

MAY

AREA 0034 POINT MUGU NW
34.0N 121.0W

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

S

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.1	.0	.0	.0	.0	.2
1-2	.2	.3	.1	.0	.0	.0	.7
3-4	.0	.1	.2	.0	.0	.0	.3
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.1	.0	.0	.1
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.4	.5	.3	.1	.0	.0	1.3

SW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.4	.6	.0	.0	.0	.0	.9
1-2	*	1.0	.5	.0	.0	.0	1.6
3-4	.0	.5	.3	.0	.0	.0	.7
5-6	.0	.0	.0	.1	.0	.0	.1
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.4	2.0	.8	.1	.0	.0	3.4

W

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.6	.0	.0	.0	.0	.7
1-2	.1	3.1	.9	.0	.0	.0	4.2
3-4	.0	.9	1.7	.7	.0	.0	3.4
5-6	.0	.1	.3	.4	.0	.0	.9
7	.0	.0	.5	.0	.0	.0	.5
8-9	.0	.0	.0	.2	.0	.0	.2
10-11	.0	.0	.1	.0	.0	.0	.1
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.1	.0	.1
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	4.8	3.6	1.3	.1	.0	10.0

NW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.3	2.2	.1	.0	.0	.0	2.6	
1-2	.4	4.5	5.1	.0	.0	.0	10.0	
3-4	*	4.0	10.5	1.8	.0	.0	16.4	
5-6	.0	.4	8.2	3.2	.3	.0	12.1	
7	.1	.1	5.1	3.1	.5	.0	9.0	
8-9	.0	.0	1.7	2.1	.4	.0	4.2	
10-11	.0	.0	.8	1.4	.1	.0	2.4	
12	.0	.0	.3	.6	.0	.0	.8	
13-16	.0	.0	.1	.3	*	.0	.5	
17-19	.0	.0	.0	.1	.2	.0	.3	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.9	11.2	32.0	12.6	1.6	.0	58.2	97.5

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	3.3	4.2	.1	.0	.0	.0	8.0	
1-2	1.4	12.2	8.6	.0	.0	.0	22.2	
3-4	.1	7.9	16.6	3.1	.0	.0	27.8	
5-6	.0	.8	11.3	4.9	.4	.0	17.4	
7	.1	.3	7.1	4.3	.5	.0	12.3	
8-9	.0	.1	2.1	3.5	.5	.0	6.2	
10-11	.0	.0	1.2	2.2	.1	.0	3.5	
12	.0	.0	.4	.6	.0	.0	1.0	
13-16	.0	.0	.1	.6	.1	.0	.9	
17-19	.0	.0	.3	.1	.3	.0	.6	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	5.4	25.4	47.7	19.5	1.9	.0	100.0	771

PERIOD: (OVER-ALL) 1949-1973

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	1.8	9.9	14.5	7.8	3.4	1.7	.6	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	636	4
6-7	.2	1.4	5.1	7.6	6.5	3.8	2.4	1.2	.6	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	461	6
8-9	.0	.3	2.4	2.6	2.9	2.3	2.1	.8	.6	.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	230	7
10-11	.0	.2	1.1	1.2	1.2	1.5	1.1	.6	.6	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	121	8
12-13	.0	.0	.2	.4	.4	.3	.1	.2	.1	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	29	8
>13	.0	.0	.0	.3	.1	.1	.0	.1	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	13	9
INDET	2.9	.8	.9	.9	.5	.2	.1	.2	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	108	3
TOTAL	78	202	386	331	240	156	102	52	36	12	2	1	0	0	0	0	0	0	0	1598	5
PCT	4.9	12.6	24.2	20.7	15.0	9.8	6.4	3.3	2.3	.8	.1	.1	.0	.0	.0	.0	.0	.0	.0	100.0	

JUNE

PERIOD: (PRIMARY) 1939-1973
(OVER-ALL) 1875-1973

AREA 0034 POINT HUGU NW
34.6N 121.2W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA				
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	.4	.0	1.6	.0	.0	.0	.0	2.0	.1	.2	7.7	.1	5.4	.0		84.4
NE	.0	.0	.9	.0	.0	.0	.0	.9	1.2	.0	16.3	.0	17.2	.0		64.5
E	.0	.0	5.4	.0	.0	.0	.0	5.4	.0	.0	23.8	.0	15.8	.0		55.0
SE	.8	.0	6.0	.0	.0	.0	.0	6.8	.8	.0	28.4	.8	9.7	.0		53.4
S	1.4	.0	3.1	.0	.0	.0	.0	5.1	.0	.0	21.8	.0	20.7	.4		52.0
SW	.0	.0	1.2	.0	.0	.0	.0	1.2	.0	.0	16.0	.0	17.6	.5		64.7
W	.1	.1	1.2	.0	.0	.0	.0	1.4	.2	.0	12.9	.2	14.2	.2		70.9
NW	.4	*	1.1	.0	.0	.0	.0	1.4	.3	*	9.0	.3	6.0	*		83.1
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0
CALM	.0	.0	1.6	.0	.0	.0	.0	1.6	.3	.0	20.7	.6	18.5	.0		58.3
TOT PCT	.3	*	1.5	.0	.0	.0	.0	1.8	.2	*	11.9	.3	9.9	.1		75.8
TOT OBS:	4750															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA				
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00&03	.0	.1	.4	.0	.0	.0	.0	.5	.0	.0	8.3	.3	10.7	.3		80.0
06&09	.3	.0	2.0	.0	.0	.0	.0	2.2	.2	.1	10.4	.1	5.9	.0		81.2
12&15	.8	.0	3.0	.0	.0	.0	.0	3.4	.3	.1	14.2	.1	8.4	.0		73.5
18&21	.2	.1	.9	.0	.0	.0	.0	1.2	.3	.0	14.0	.5	13.1	.1		70.9
TOT PCT	.3	*	1.5	.0	.0	.0	.0	1.8	.2	*	11.9	.3	9.8	.1		75.8
TOT OBS:	4780															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	.7	3.3	7.1	3.8	.2	.0		15.1	16.5	15.1	9.9	16.2	14.4	19.9	15.9	15.7	11.4
NE	.6	.7	.3	.1	.0	.0		1.7	7.2	.6	.1	2.0	3.0	3.9	2.3	1.2	.6
E	.6	.6	.1	.0	.0	.0		1.3	4.6	1.0	.1	.8	1.5	2.2	2.3	1.1	1.3
SE	.6	1.7	.3	*	.0	.0		2.6	6.1	1.8	.5	2.6	3.1	2.2	3.5	3.3	3.3
S	1.2	1.8	.1	.0	.0	.0		3.1	4.8	1.9	1.6	1.3	2.3	2.1	3.4	5.2	5.1
SW	1.1	2.8	.3	.1	.0	.0		4.3	5.9	5.2	3.7	2.3	4.1	1.5	3.3	6.1	6.7
W	2.7	11.8	5.5	.6	*	.0		20.5	8.9	29.0	32.7	17.2	17.3	11.6	15.2	20.3	23.0
NW	1.5	11.1	21.8	9.6	.5	.0		44.5	15.7	42.8	48.0	51.0	45.8	43.9	43.5	38.1	46.1
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	7.0							7.0	.0	2.7	3.3	6.6	8.4	12.7	10.5	9.1	2.6
TOT OBS	834	1763	1856	735	38	0	5226		12.0	808	397	650	438	733	591	828	781
TOT PCT	16.0	33.7	35.5	14.1	.7	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	1.7	5.6	6.6	1.2	*		15.1	16.5	13.4	15.4	18.1	13.6
NE	1.1	.4	.2	*	.0		1.7	7.2	.4	2.4	3.2	.9
E	1.0	.3	.0	.0	.0		1.3	4.6	.7	1.1	2.3	1.2
SE	1.7	.9	.1	.0	.0		2.6	6.1	1.3	2.8	2.8	3.3
S	2.4	.7	.0	.0	.0		3.1	4.8	1.8	1.7	2.7	5.1
SW	2.9	1.3	.1	.0	.0		4.3	5.9	4.7	3.0	2.3	6.4
W	7.8	10.8	1.8	.2	.0		20.5	8.9	30.2	17.2	13.2	21.6
NW	5.3	18.9	17.2	3.0	*		44.5	15.7	44.5	48.9	43.7	42.0
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	7.0						7.0	.0	2.9	7.4	11.7	5.9
TOT OBS	1612	2027	1357	228	2	5226		12.0	1205	1088	1324	1609
TOT PCT	30.8	38.8	26.0	4.4	*		100.0		100.0	100.0	100.0	100.0

JUNE

PERIOD: (PRIMARY) 1939-1973
(OVER-ALL) 1875-1973

AREA 0G34 POINT HUGU NW
34.6N 121.2W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	2.9	6.2	34.7	39.0	16.0	1.2	.0	13.2	100.0	1205
06&09	7.4	7.1	30.6	36.9	17.1	1.0	.0	13.0	100.0	1088
12&15	11.7	11.2	30.5	33.5	12.7	.4	.0	11.1	100.0	1324
18&21	5.9	10.5	37.8	33.6	11.7	.5	.0	11.2	100.0	1609
TOT	365	469	1763	1856	735	38	0	12.0		5226
PCT	7.0	9.0	33.7	35.5	14.1	.7	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	5.8	1.2	3.2	6.8		4.8
NE	1.0	.1	.3	.7		3.9
E	.4	*	.1	.9		5.7
SE	.4	.1	.4	2.0		6.5
S	.4	.1	.7	1.5		6.2
SW	1.3	.2	.5	1.8		4.9
W	10.5	1.0	2.0	6.7		3.6
NW	16.4	3.2	6.0	15.6		4.4
VAR	.0	.0	.0	.0		.0
CALM	3.9	.1	.9	3.6		4.2
TOT OBS	1198	177	425	1181	2981	4.4
TOT PCT	40.2	5.9	14.3	39.6	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.7	.2	.6	2.2	3.9	1.6	.3	.1	.0	.1	7.3	
NE	.1	.0	.1	.1	.5	.1	.1	.0	*	*	1.1	
E	.2	.0	*	.1	.4	.2	*	.0	*	.0	.4	
SE	.4	.0	.2	.5	.7	.3	.2	*	*	.0	.6	
S	.2	.0	.3	.4	.9	.3	.1	.0	*	.0	.7	
SW	.2	.0	.2	.4	.9	.3	.2	.0	.0	*	1.6	
W	.6	*	.6	1.4	3.2	1.6	.4	*	.1	.1	12.2	
NW	1.6	.3	1.7	4.2	8.0	3.5	.7	.3	.0	.1	20.9	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.6	*	.2	.9	1.7	.6	.3	.0	.0	.1	4.1	
TOT OBS	135	17	115	301	602	257	66	14	5	.1	1458	2981
TOT PCT	4.5	.6	3.9	10.1	20.2	8.6	2.2	.5	.2	.4	48.9	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM) * OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >50YD	* OR >0
* OR >6500	.2	.5	.5	.5	.5	.5	.5	.5
* OR >5000	.4	.9	1.0	1.0	1.0	1.0	1.0	1.0
* OR >3500	1.2	3.1	3.2	3.2	3.2	3.3	3.3	3.3
* OR >2000	5.5	11.0	11.8	11.8	11.8	11.9	11.9	11.9
* OR >1000	15.1	27.8	30.9	31.7	31.9	31.9	32.0	32.0
* OR >600	19.1	35.6	40.1	41.5	41.8	41.9	42.0	42.0
* OR >300	19.7	37.8	43.0	44.9	45.6	45.8	45.9	45.9
* OR >150	19.7	38.1	43.6	45.4	46.2	46.3	46.5	46.5
* OR > 0	19.9	38.8	44.7	47.1	49.1	49.7	50.6	50.9
TOTAL	596	1163	1341	1414	1473	1492	1519	1528

TOTAL NUMBER OF OBS: 3001

PCT FREQ NH <5/8: 49.1

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
31.5	6.4	5.0	3.5	2.2	1.9	4.8	6.8	34.1	3.8	3103

JUNE

PERIOD: (PRIMARY) 1939-1973
(OVER-ALL) 1875-1973

AREA 0034 POINT HUGU NW
34.6N 121.2W

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	*	.0	.0	.0	.0	.0	.0	*	.0	.0	*	
	NO PCP	.2	*	*	.1	.1	.1	.4	.9	.0	.2	2.1	
	TOT %	.2	*	*	.1	.1	.1	.4	.9	.0	.2	2.1	
1/2<1	PCP	.0	.0	.0	*	*	*	.0	.0	.0	*	.1	
	NO PCP	.2	.1	.1	.1	.2	.1	.3	.5	.0	.2	1.7	
	TOT %	.2	.1	.1	.2	.2	.1	.3	.5	.0	.3	1.9	
1<2	PCP	.0	.0	*	*	.1	.0	.1	*	.0	*	.2	
	NO PCP	.2	.1	.1	.2	.2	.1	.5	.6	.0	.3	2.3	
	TOT %	.2	.1	.1	.3	.2	.1	.5	.6	.0	.4	2.5	
2<5	PCP	.1	*	*	*	*	*	*	.1	.0	*	.4	
	NO PCP	.6	.2	.2	.2	.5	.7	2.5	2.2	.0	1.3	8.4	
	TOT %	.8	.2	.2	.3	.6	.7	2.5	2.3	.0	1.3	8.8	
5<10	PCP	.2	.0	*	*	*	.0	.1	.4	.0	*	.7	
	NO PCP	4.2	.7	.6	1.0	1.1	1.9	8.9	12.9	.0	2.7	34.0	
	TOT %	4.4	.7	.6	1.1	1.1	1.9	9.0	13.2	.0	2.7	34.7	
10+	PCP	*	.0	*	.1	.0	.0	.1	.1	.0	.0	.3	
	NO PCP	9.7	.7	.3	.6	.7	1.5	8.2	26.0	.0	1.9	49.7	
	TOT %	9.7	.7	.3	.7	.7	1.5	8.3	26.1	.0	1.9	50.0	
	TOT OBS												4748
	TOT PCT	19.5	1.8	1.4	2.5	3.0	4.5	21.0	43.6	.0	6.7	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	*	*	.1	*	*	.1	.0	.4	.7	
	4-10	.1	*	*	*	*	.1	.4	.4	.0		1.0	
	11-21	.1	*	.0	.0	.0	*	.1	.5	.0		.7	
	22+	*	.0	.0	.0	.0	.0	*	.2	.0		.2	
	TOT %	.2	*	.1	.1	.1	.2	.5	1.1	.0	.4	2.6	
1/2<1	0-3	*	*	.1	.1	.1	.1	.1	.1	.0	.4	.9	
	4-10	*	*	*	*	.1	.1	.1	.2	.0		.6	
	11-21	.1	*	.0	*	.0	.0	*	.2	.0		.4	
	22+	*	.0	.0	.0	.0	.0	.0	*	.0		.1	
	TOT %	.2	.1	.1	.1	.2	.1	.3	.5	.0	.4	1.9	
1<2	0-3	*	*	.1	.2	.1	*	.1	*	.0	.4	1.0	
	4-10	.1	*	*	.1	.2	.1	.4	.4	.0		1.2	
	11-21	.1	.0	.0	*	.0	.0	.1	.4	.0		.6	
	22+	*	.0	.0	.0	.0	.0	.0	.1	.0		.2	
	TOT %	.2	*	.1	.3	.2	.1	.5	.9	.0	.4	2.9	
2<5	0-3	.2	.1	.1	.1	.2	.1	.6	.2	.0	1.3	3.0	
	4-10	.2	.1	.1	.2	.3	.6	1.5	1.0	.0		3.9	
	11-21	.3	*	.0	*	*	*	.4	1.2	.0		2.1	
	22+	.1	.0	.0	.0	.0	.0	*	.4	.0		.5	
	TOT %	.9	.2	.2	.3	.5	.7	2.6	2.9	.0	1.3	9.6	
5<10	0-3	.2	.3	.3	.2	.4	.5	1.1	.5	.0	2.6	6.2	
	4-10	.9	.2	.2	.8	.7	1.1	5.1	3.3	.0		12.4	
	11-21	1.9	.1	*	.1	*	.1	2.1	6.2	.0		10.6	
	22+	1.2	*	.0	.0	.0	*	.2	2.9	.0		4.3	
	TOT %	4.2	.6	.6	1.1	1.2	1.8	8.5	12.9	.0	2.6	33.5	
10+	0-3	.2	.1	*	.1	.3	.3	.7	.6	.0	2.0	4.3	
	4-10	2.0	.4	.2	.6	.5	.9	4.4	5.7	.0		14.6	
	11-21	4.6	.1	*	.1	.1	.2	2.9	13.1	.0		21.0	
	22+	2.6	.1	.0	*	.0	.1	.4	6.5	.0		9.6	
	TOT %	9.4	.7	.3	.8	.9	1.4	8.3	25.9	.0	2.0	49.5	
	TOT OBS												5106
	TOT PCT	19.1	1.7	1.4	2.6	3.1	4.3	20.8	44.1	.0	7.0	100.0	

JUNE

PERIOD: (PRIMARY) 1939-1973
(OVER-ALL) 1875-1973

AREA 0034 POINT HUGU NW
34.6N 121.2W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET,NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00&03	2.7	.5	2.8	8.8	18.4	8.8	2.0	.5	.1	.1	44.7	55.3	754
06&09	4.3	.7	2.1	7.3	17.6	6.6	1.0	.7	.1	.4	40.7	59.3	717
12&15	5.8	.4	5.8	12.1	20.2	9.3	2.6	.3	.3	.5	57.1	42.9	744
18&21	5.0	.7	4.7	11.3	22.9	9.2	3.3	.4	.1	.4	58.0	42.0	822
TOT	135	18	118	301	603	258	68	14	5	11	1531	1506	3037
PCT	4.4	.6	3.9	9.9	19.9	8.5	2.2	.5	.2	.4	50.4	49.6	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00&03	1.9	.6	2.2	8.6	33.9	52.9	1184
06&09	3.1	2.0	1.6	6.6	32.8	53.9	1083
12&15	2.9	2.6	3.6	9.5	34.1	47.3	1289
18&21	2.5	2.3	3.6	12.4	33.3	45.9	1583
TOT	133	99	147	491	1722	2547	5139
PCT	2.6	1.9	2.9	9.6	33.5	49.6	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET,NH >4/8),BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	2.7	6.2	20.0	27.2	52.8	740
06&09	4.2	8.0	19.4	24.1	56.5	711
12&15	5.7	12.2	31.1	29.1	39.8	736
18&21	5.0	11.8	30.5	30.3	39.2	814
TOT	133	289	763	833	1405	3001
PCT	4.4	9.6	25.4	27.8	46.8	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
80/84	.0	.0	*	.0	*	.0	.0	.0	2	.1
75/79	.0	.0	.0	.0	.1	*	.0	.0	3	.1
70/74	.0	.0	.0	.3	.9	.7	.1	.1	65	2.1
65/69	.0	.0	.0	.2	1.8	3.8	2.0	.6	265	8.4
60/64	.0	.0	.1	.2	2.6	10.0	12.8	4.6	953	30.3
55/59	.0	.0	.0	.1	.4	8.3	28.7	14.4	1633	51.9
50/54	.0	.0	.0	*	.1	.6	3.0	3.3	221	7.0
45/49	.0	.0	.0	.0	.0	.0	.0	.1	2	.1
40/44	.0	.0	.0	.0	.0	.0	*	.0	1	*
TOTAL	0	0	3	25	185	734	1469	729	3145	100.0
PCT	.0	.0	.1	.8	5.9	23.3	46.7	23.2		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
*	.0	.0	.0	.0	.0	*	*	.0	.0
.0	.0	.0	*	*	.0	*	*	.0	.0
.2	*	*	.1	.4	.5	.5	.2	.0	.1
.4	*	.1	.2	.7	1.2	3.2	1.9	.0	.7
4.0	.5	.6	1.0	1.0	1.6	8.2	11.0	.0	2.4
10.2	.8	.5	1.0	.8	1.2	8.4	26.8	.0	2.3
1.3	.4	.1	*	*	*	.6	4.1	.0	.5
*	.0	.0	.0	.0	.0	.0	.0	.0	*
.0	.0	.0	.0	.0	.0	.0	*	.0	.0
16.1	1.7	1.3	2.3	2.9	4.5	20.9	44.1	.0	6.1

TABLE 15

MEANS,EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00&03	82	72	68	60	55	53	49	60.8	1207
06&09	77	66	63	57	54	52	46	58.0	1089
12&15	70	65	62	57	53	51	44	57.2	1323
18&21	82	72	69	61	55	53	48	60.9	1601
TOT	82	71	67	59	54	52	44	59.4	5220

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00&03	.0	.4	7.7	33.2	44.3	14.4	82	810
06&09	.0	.2	1.1	15.3	51.5	32.0	87	666
12&15	.0	.5	1.9	12.3	49.3	36.0	87	749
18&21	.0	2.1	10.9	29.4	43.2	14.5	81	940
TOT	0	28	185	739	1477	736	84	3165

PERIOD: (PRIMARY) 1939-1973
(OVER-ALL) 1875-1973

AREA 0034 POINT MUGU NW
34.6N 121.2W

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	41 44	45 48	49 52	53 56	57 60	61 64	65 68	69 72	73 76	77 80	81 84	TOT	W FOG	WO FOG
23/25	.0	.0	.0	.0	.0	.0	.0	.0	*	.0	.0	1	.0	*
20/22	.0	.0	.0	.0	.0	.0	.0	.0	*	.0	*	2	.0	.1
17/19	.0	.0	.0	.0	.0	.0	.0	*	*	.1	.0	4	.0	.1
14/16	.0	.0	.0	.0	*	*	.1	.1	.1	*	.0	11	.0	.3
11/13	.0	.0	.0	*	.2	.1	.4	.3	*	.0	.0	39	*	1.1
9/10	.0	.0	.0	*	.2	.5	.3	.2	*	.0	.0	46	.1	1.2
7/8	.0	.0	.0	.1	.7	1.5	.5	.1	.1	.0	.0	100	.2	2.7
6	.0	.0	.0	.1	.6	.9	.4	*	.0	.0	.0	69	.2	1.8
5	.0	.0	.0	.3	1.4	2.2	.5	.1	.0	.0	.0	158	.3	4.3
4	.0	.0	.0	.8	3.2	3.2	.5	.1	.0	.0	.0	269	.8	7.0
3	.0	.0	.0	.9	3.4	1.8	.3	.0	.0	.0	.0	220	.3	6.1
2	.0	.0	*	2.5	7.1	3.6	.3	.0	*	.0	.0	468	1.3	12.2
1	.0	.0	.0	3.1	4.3	1.7	.2	.1	.0	.0	.0	323	.9	8.4
0	.0	.0	.1	4.8	8.8	3.0	.2	.1	.0	.0	.0	588	2.5	14.5
-1	.0	.0	.1	3.3	3.6	.9	.1	.0	.0	.0	.0	277	.7	7.3
-2	.0	.0	.2	4.2	4.5	1.4	*	*	.0	.0	.0	359	1.1	9.3
-3	.0	.0	.2	2.3	2.3	.3	*	*	.0	.0	.0	177	.9	4.3
-4	.0	.0	.2	2.3	2.1	.4	*	.0	.0	.0	.0	173	.6	4.4
-5	.0	.0	.1	1.2	.7	.2	*	.0	.0	.0	.0	77	.1	2.1
-6	.0	.0	.1	.5	.5	.1	.0	.0	.0	.0	.0	39	.2	1.0
-7/-8	.0	.1	.1	.4	.3	.1	.0	.0	.0	.0	.0	35	.1	.9
-9/-10	*	*	.0	.2	.2	.0	.0	.0	.0	.0	.0	14	.1	.3
-11/-13	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	5	.1	.1
-14/-16	.0	.0	.0	*	.0	.0	.0	.0	.0	.0	.0	1	.0	*
-17/-19	.0	.0	.0	*	.0	.0	.0	.0	.0	.0	.0	1	.0	*
TOTAL	1	5	38	936	1521	764	140	37	10	3	1	3456	363	3093
PCT	*	.1	1.1	27.1	44.0	22.1	4.1	1.1	.3	.1	*	100.0	10.5	89.5

PERIOD: (OVER-ALL) 1963-1973

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	1.1	.0	.0	.0	.0	1.2
1-2	.4	1.9	2.2	.0	.0	.0	4.4
3-4	.0	1.0	3.3	.9	.0	.0	5.3
5-6	.0	.3	1.9	.8	.0	.0	3.0
7	.0	.2	1.3	1.3	.0	.0	2.8
8-9	.0	.0	.2	.7	.0	.0	.9
10-11	.0	.0	.0	.8	.0	.0	.8
12	.0	.0	.3	.1	.0	.0	.4
13-16	.0	.0	.1	.2	.0	.0	.3
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.4	4.4	9.3	4.8	.0	.0	18.9

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.1	.0	.0	.0	.0	.1
1-2	.1	*	.1	.0	.0	.0	.2
3-4	.0	.1	.3	.0	.0	.0	.5
5-6	.0	.0	*	.0	.0	.0	*
7	.0	.0	.0	.1	.0	.0	.1
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.1	.3	.5	.1	.0	.0	.9

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	.5	.0	.0	.0	.0	.7
1-2	.1	.3	.0	.0	.0	.0	.4
3-4	.0	.1	.0	.0	.0	.0	.1
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.1	.0	.0	.0	.1
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	.9	.1	.0	.0	.0	1.3

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	.9	.0	.0	.0	.0	1.1
1-2	.1	.9	.4	.0	.0	.0	1.5
3-4	.0	.1	.1	.0	.0	.0	.2
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	*	.0	.0	.0	*
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	2.0	.6	.0	.0	.0	2.8

PERIOD: (OVER-ALL) 1963-1979

JUNE

AREA 0034 POINT MUGU NW
34.6N 121.2W

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

	S							SW						
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	.2	.0	.0	.0	.0	.4	.2	.3	.0	.0	.0	.0	.5
1-2	.2	1.0	.0	.0	.0	.0	1.2	.4	.6	.1	.0	.0	.0	1.1
3-4	.1	.1	.0	.0	.0	.0	.2	.0	.3	.0	.0	.0	.0	.3
5-6	.0	.0	.0	.0	.0	.0	.0	.0	*	.0	.0	.0	.0	*
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	*	.0	.0	.1
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.5	1.3	.0	.0	.0	.0	1.8	.6	1.2	.2	*	.0	.0	2.0

	W							NW							TOTAL
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	PCT
<1	.3	1.1	.1	.0	.0	.0	1.5	.2	1.6	.0	.0	.0	.0	1.9	
1-2	.3	2.9	1.7	.0	.0	.0	4.9	.6	7.0	7.0	.0	.0	.0	14.6	
3-4	.0	1.0	1.6	.0	.0	.0	2.6	.0	2.0	11.7	2.2	.0	.0	15.9	
5-6	.0	.3	.9	.3	.0	.0	1.4	.0	.7	6.7	3.4	.1	.0	11.0	
7	.0	.0	.5	.2	.0	.0	.8	.0	.2	4.1	3.1	.1	.0	7.6	
8-9	.0	.0	.0	.1	.0	.0	.1	.0	.0	1.8	1.8	.1	.0	3.8	
10-11	.0	.0	.2	.0	.0	.0	.2	.0	.0	.0	1.6	.1	.0	1.7	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.2	.0	.0	.3	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.4	.0	.0	1.4	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.6	5.2	5.0	.6	.0	.0	11.5	.8	11.6	31.4	13.9	.4	.0	58.2	97.4

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	4.0	5.8	.1	.0	.0	.0	9.9	
1-2	2.2	14.7	11.6	.0	.0	.0	28.4	
3-4	.1	4.8	17.0	3.1	.0	.0	25.0	
5-6	.0	1.3	9.5	4.5	.1	.0	15.5	
7	.0	.4	6.1	4.8	.1	.0	11.4	
8-9	.0	.0	2.1	2.6	.1	.0	4.8	
10-11	.0	.0	.2	2.4	.1	.0	2.7	
12	.0	.0	.3	.3	.0	.0	.6	
13-16	.0	.0	.1	1.6	.0	.0	1.7	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
								925
TOT PCT	6.3	27.0	46.9	19.4	.4	.0	100.0	

PERIOD: (OVER-ALL) 1949-1979

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	1.7	10.3	16.2	7.7	4.7	1.9	.6	.4	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	823	4
6-7	.1	2.0	5.0	7.2	5.3	2.7	1.9	.5	.8	.1	.1	.1	.0	.0	.0	.0	.0	.0	.0	482	6
8-9	.2	.3	3.1	2.0	3.5	2.8	1.9	.9	.7	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	290	7
10-11	.0	.6	.8	.9	1.1	1.5	.6	.9	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	133	8
12-13	.0	.0	.4	.3	.1	.3	.3	.3	.3	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	40	9
>13	.0	.0	.0	.1	.2	.1	.0	.2	.3	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	18	12
INDET	2.6	1.0	.6	.2	.1	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	91	2
TOTAL	85	267	492	347	282	179	100	57	56	2	9	1	0	0	0	0	0	0	0	1877	5
PCT	4.5	14.2	26.2	18.5	15.0	9.5	5.3	3.0	3.0	.1	.5	.1	.0	.0	.0	.0	.0	.0	.0	100.0	

JULY

PERIOD: (PRIMARY) 1939-1973
(OVER-ALL) 1877-1973

AREA 0034 POINT HUGU NW
34.6N 121.2W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA				
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	.1	.2	1.7	.0	.0	.0	.0	2.0	.5	.0	10.6	.4	4.6	.1		81.7
NE	.0	.0	1.5	.0	.0	.0	.0	1.5	.4	.0	36.7	1.5	11.1	.0		48.9
E	1.9	.0	1.9	.0	.0	.0	.0	3.8	1.4	.0	33.8	.0	18.1	.0		42.9
SE	.9	.0	1.9	.0	.0	.0	.0	2.8	.2	.0	30.1	.0	22.6	.0		44.2
S	.0	.0	1.9	.0	.0	.0	.0	1.9	1.4	.0	29.7	.7	20.4	.0		45.9
SW	.0	.0	.9	.0	.0	.0	.0	.9	.2	.0	21.9	.5	24.7	.0		51.8
W	.1	.1	.7	.0	.0	.0	.0	.8	.2	.2	22.5	.2	19.7	.0		56.4
NW	.2	.2	1.1	.0	.0	.0	.0	1.5	.1	*	14.4	.2	9.0	.1		74.6
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0
CALM	.0	.0	2.6	.0	.0	.0	.0	2.6	.0	.0	40.8	.0	22.4	.0		34.2
TOT PCT	.2	.2	1.3	.0	.0	.0	.0	1.5	.3	*	18.7	.3	12.6	.1		66.5
TOT OBS:	4593															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA				
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00&03	.3	.1	.6	.0	.0	.0	.0	.7	.1	.0	11.9	.2	13.6	.0		73.5
06&09	.2	.2	1.6	.0	.0	.0	.0	2.0	.3	.0	16.2	.2	9.9	.3		71.1
12&15	.3	.3	2.3	.0	.0	.0	.0	2.8	.5	.1	22.5	.3	10.0	.0		63.7
18&21	.1	.1	.9	.0	.0	.0	.0	.9	.1	.1	22.8	.4	15.8	.0		59.9
TOT PCT	.2	.2	1.3	.0	.0	.0	.0	1.6	.3	*	18.7	.3	12.6	.1		66.5
TOT OBS:	4637															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	.6	3.5	8.5	3.6	.1	.0		16.3	16.1	14.9	11.2	13.6	15.6	19.0	16.0	17.1	14.9
NE	.6	.5	.3	*	.0	.0		1.4	6.8	.2	.8	.9	2.3	2.9	2.7	1.0	.7
E	.4	.6	*	.0	.0	.0		1.1	5.0	.4	.5	.6	.5	1.9	2.6	1.0	1.1
SE	.8	1.3	.3	.0	.0	.0		2.4	5.7	1.5	1.1	1.8	3.9	2.1	5.1	1.8	2.8
S	1.2	1.6	.2	.0	.0	.0		3.0	5.2	2.6	1.2	2.0	2.8	3.0	4.2	4.4	2.9
SW	1.1	2.8	.6	*	.0	.0		4.4	6.5	4.6	4.3	1.6	3.5	3.0	3.8	7.2	6.4
W	2.8	11.1	4.3	.6	*	.0		18.8	8.5	25.3	25.5	16.0	15.3	11.2	13.6	20.6	22.7
NW	2.3	13.9	21.9	8.3	.2	.0		46.5	14.5	48.6	53.4	53.1	50.7	45.3	42.3	38.4	45.9
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	6.1							6.1	.0	1.9	2.1	5.5	5.3	11.5	9.7	8.5	2.6
TOT OBS	805	1790	1833	639	16	0	5083		11.7	829	376	669	418	739	549	839	664
TOT PCT	15.8	35.2	36.1	12.6	.3	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	1.8	6.5	7.0	1.0	.0		16.3	16.1	13.8	17.5	17.7	16.1
NE	.8	.4	.1	*	.0		1.4	6.8	.4	1.4	2.9	.9
E	.8	.3	*	.0	.0		1.1	5.0	.4	.6	2.2	1.0
SE	1.6	.8	.0	.0	.0		2.4	5.7	1.3	2.6	3.4	2.3
S	2.1	.8	*	.0	.0		3.0	5.2	2.1	2.3	3.6	3.7
SW	2.7	1.5	.2	*	.0		4.4	6.5	4.5	2.3	3.3	6.8
W	8.0	9.2	1.5	.1	.0		18.8	8.5	25.3	15.7	12.2	21.6
NW	7.5	20.4	16.6	2.0	*		46.5	14.5	50.1	52.2	44.1	41.7
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	6.1						6.1	.0	2.0	5.4	10.7	5.9
TOT OBS	1600	2033	1290	159	1	5083		11.7	1205	1087	1288	1503
TOT PCT	31.5	40.0	25.4	3.1	*		100.0		100.0	100.0	100.0	100.0

JULY

PERIOD: (PRIMARY) 1939-1973
(OVER-ALL) 1877-1973

AREA 0034 POINT HUGU NW
34.6N 121.2W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	2.0	4.6	37.0	40.9	15.0	.5	.0	13.2	100.0	1205
06&09	5.4	8.2	31.5	40.3	14.2	.5	.0	12.7	100.0	1087
12&15	10.7	13.9	29.8	34.2	11.0	.3	.0	10.7	100.0	1288
18&21	5.8	11.5	41.1	30.7	10.8	.1	.0	10.7	100.0	1503
TOT	309	496	1790	1833	639	16	0	11.7		5083
PCT	6.1	9.8	35.2	36.1	12.6	.3	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	4.4	.8	2.6	9.4		5.6
NE	.3	*	.1	1.0		6.0
E	.2	.1	.2	.6		6.0
SE	.5	.1	.1	1.5		6.0
S	.7	.1	.4	1.6		5.9
SW	1.6	.2	.5	1.8		4.7
W	8.3	.9	2.7	6.9		4.1
NW	14.7	1.5	5.9	22.3		5.1
VAR	.0	.0	.0	.0		.0
CALM	2.6	.2	.7	4.5		5.2
TOT OBS	1027	119	411	1527	3084	5.1
TOT PCT	33.3	3.9	13.3	49.5	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.7	.2	1.0	2.6	4.8	1.7	.5	.1	.0	.1	5.5	
NE	.1	*	.1	.3	.4	*	.0	*	.0	*	.4	
E	.2	.0	*	.2	.2	*	*	.0	.0	*	.3	
SE	.3	*	.1	.3	.6	.1	.0	.0	.0	*	.7	
S	.2	.1	.1	.6	.6	.1	.0	.0	.0	.1	1.0	
SW	.3	*	.2	.7	.8	.2	.0	.0	*	.0	1.9	
W	1.1	.1	.8	2.0	3.6	.7	.2	.3	.0	.1	10.2	
NW	2.4	.3	1.6	6.9	10.8	3.9	.9	.2	.1	.2	17.2	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	1.1	*	.4	1.0	1.8	.4	.1	*	.1	.1	3.1	
TOT OBS	199	23	137	446	723	221	51	19	5	18	1262	3084
TOT PCT	6.5	.7	4.4	14.5	23.4	7.2	1.7	.6	.2	.6	40.3	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM) * OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >50YD	* OR >0
* OR >6500	.2	.6	.7	.7	.7	.8	.8	.8
* OR >5000	.4	1.1	1.3	1.3	1.3	1.4	1.4	1.4
* OR >3500	1.4	2.7	3.0	3.0	3.0	3.1	3.1	3.1
* OR >2000	5.3	9.2	10.0	10.1	10.2	10.2	10.2	10.2
* OR >1000	15.0	27.8	32.3	33.4	33.5	33.6	33.6	33.6
* OR >600	19.5	37.8	45.1	47.5	48.0	48.1	48.1	48.1
* OR >300	20.3	40.5	48.7	51.6	52.4	52.5	52.6	52.6
* OR >150	20.5	40.9	49.2	52.3	53.1	53.3	53.3	53.3
* OR > 0	20.5	41.5	50.6	54.7	57.0	57.9	59.4	59.7
TOTAL	633	1278	1559	1684	1755	1785	1830	1838

TOTAL NUMBER OF OBS: 3081

PCT FREQ NH <5/8: 40.3

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
25.8	4.8	4.9	2.4	1.6	2.3	4.7	6.3	41.6	5.6	3200

PERIOD: (PRIMARY) 1939-1973
(OVER-ALL) 1877-1973

AREA 0034 POINT MUGU NW
34.6N 121.2W

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	PCP	.0	.0	*	*	.0	.0	*	*	.0	*	.1	
<1/2	NO PCP	.2	.1	*	.2	.2	.1	.5	1.2	.0	.3	2.9	
	TOT %	.2	.1	.1	.2	.2	.1	.6	1.3	.0	.4	3.1	
	PCP	*	.0	.0	*	*	.0	.0	*	.0	.1	.1	
1/2<1	NO PCP	.3	.1	.1	.1	.2	.1	.5	.9	.0	.4	2.6	
	TOT %	.3	.1	.1	.1	.2	.1	.5	.9	.0	.5	2.8	
	PCP	.0	*	*	*	.0	.0	.0	.0	.0	*	.1	
1<2	NO PCP	.2	.2	.2	.4	.4	.5	1.2	.7	.0	.5	4.2	
	TOT %	.2	.2	.2	.4	.4	.5	1.2	.7	.0	.5	4.3	
	PCP	.1	.0	*	*	.0	*	*	.1	.0	*	.3	
2<5	NO PCP	.9	.3	.2	.6	.5	.8	3.1	3.7	.0	1.7	11.7	
	TOT %	1.0	.3	.2	.6	.5	.8	3.1	3.8	.0	1.7	12.1	
	PCP	.2	.0	.0	.0	*	*	.1	.4	.0	.0	.7	
5<10	NO PCP	5.9	.4	.4	.9	1.3	2.1	7.9	16.3	.0	2.0	37.1	
	TOT %	6.1	.4	.4	.9	1.3	2.1	8.0	16.7	.0	2.0	37.8	
	PCP	*	.0	.0	.0	*	.0	*	.1	.0	.0	.2	
10+	NO PCP	8.7	.4	.2	.4	.5	1.1	5.4	22.3	.0	.9	39.8	
	TOT %	8.7	.4	.2	.4	.5	1.1	5.4	22.4	.0	.9	40.0	
	TOT OBS												4583
	TOT PCT	16.5	1.5	1.1	2.6	3.1	4.7	18.7	45.9	.0	5.9	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	0-3	*	.1	*	.1	.1	.1	.2	.2	.0	.4	1.2	
<1/2	4-10	.1	.1	*	.1	.1	.1	.4	.7	.0		1.5	
	11-21	.1	*	.0	.0	.0	.0	.1	.4	.0		.6	
	22+	*	.0	.0	.0	.0	.0	*	*	.0		.1	
	TOT %	.2	.2	.1	.2	.2	.1	.7	1.4	.0	.4	3.4	
	0-3	*	.1	*	*	.1	*	.1	.1	.0	.4	1.0	
1/2<1	4-10	.1	*	*	*	.1	.1	.3	.3	.0		.9	
	11-21	.2	*	*	*	.0	*	.1	.5	.0		.9	
	22+	*	.0	.0	.0	.0	.0	*	*	.0		.1	
	TOT %	.4	.1	.1	.1	.2	.1	.5	1.0	.0	.4	2.8	
	0-3	.1	.1	.1	.2	.3	.2	.2	.1	.0	.5	1.7	
1<2	4-10	.1	.1	.1	.1	*	.3	.8	.4	.0		1.9	
	11-21	*	.0	.0	.1	.0	*	.2	.5	.0		.8	
	22+	.1	.0	.0	.0	.0	.0	*	.1	.0		.2	
	TOT %	.2	.2	.2	.4	.3	.5	1.2	1.0	.0	.5	4.3	
	0-3	.2	.2	.1	.2	.2	.2	.7	.6	.0	1.8	4.2	
2<5	4-10	.4	.1	.1	.4	.3	.5	2.2	2.0	.0		5.9	
	11-21	.4	*	*	.1	*	*	.4	1.4	.0		2.4	
	22+	.1	.0	.0	.0	.0	.0	.1	.5	.0		.7	
	TOT %	1.2	.2	.2	.6	.6	.8	3.3	4.6	.0	1.8	13.1	
	0-3	.2	.2	.1	.3	.4	.5	1.3	.7	.0	2.1	5.6	
5<10	4-10	1.1	.1	.3	.5	.7	1.2	4.8	4.8	.0		13.5	
	11-21	3.1	*	*	.1	.1	.3	1.4	7.6	.0		12.6	
	22+	1.4	.0	.0	.0	.0	.0	.2	3.1	.0		4.7	
	TOT %	5.8	.3	.4	.9	1.2	2.0	7.7	16.2	.0	2.1	36.5	
	0-3	.1	*	*	.1	.1	.1	.4	.5	.0	.9	2.2	
10+	4-10	1.5	.2	.2	.3	.3	.7	2.8	5.4	.0		11.4	
	11-21	4.8	.2	.0	*	.1	.3	2.2	11.2	.0		18.7	
	22+	2.2	*	.0	.0	.0	*	.3	4.9	.0		7.4	
	TOT %	8.6	.4	.2	.4	.5	1.1	5.8	22.0	.0	.9	39.7	
	TOT OBS												4916
	TOT PCT	16.4	1.4	1.1	2.5	3.0	4.5	18.9	46.2	.0	6.0	100.0	

JULY

PERIOD: (PRIMARY) 1939-1973
(OVER-ALL) 1877-1973

AREA 0034 POINT MUGU NM
34.6N 121.2W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET,NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00&03	3.3	.8	4.0	11.4	21.3	8.8	2.5	.9	.0	.4	53.1	46.9	800
06&09	6.7	.8	4.3	11.2	22.3	4.3	1.7	.1	.3	.4	52.2	47.8	717
12&15	9.8	.5	5.3	16.5	23.0	7.2	1.0	.5	.3	.8	65.0	35.0	734
18&21	6.4	.8	4.3	18.0	26.0	7.9	1.4	.9	.1	.8	66.6	33.4	862
TOT	201	23	139	447	723	222	51	20	5	19	1850	1263	3113
PCT	6.5	.7	4.5	14.4	23.2	7.1	1.6	.6	.2	.6	59.4	40.6	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00&03	1.8	2.2	2.9	9.0	39.2	44.9	1171
06&09	3.3	2.7	2.3	13.2	35.3	43.2	1074
12&15	6.1	4.0	5.6	13.7	33.6	37.0	1238
18&21	2.6	2.5	6.3	15.8	38.0	34.8	1478
TOT	170	142	221	651	1815	1962	4961
PCT	3.4	2.9	4.5	13.1	36.6	39.5	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET,NH >4/8),BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	3.2	8.5	28.2	30.6	41.1	790
06&09	6.5	12.0	34.3	24.3	41.5	709
12&15	9.8	17.2	45.1	25.4	29.5	728
18&21	6.2	12.6	42.7	30.2	27.0	854
TOT	195	385	1159	857	1065	3081
PCT	6.3	12.5	37.6	27.8	34.6	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
80/84	.0	.0	.0	.0	.0	*	.0	.0	1	*
75/79	.0	.0	.0	*	.2	.3	.0	*	19	.6
70/74	.0	.0	.0	*	.9	1.9	.8	.2	121	3.9
65/69	.0	*	*	.1	.6	3.7	5.6	1.7	362	11.8
60/64	.0	.0	.0	.0	.8	6.3	24.5	10.5	1295	42.1
55/59	.0	.0	.0	*	.3	1.8	18.3	18.3	1191	38.7
50/54	.0	.0	.0	.0	.0	.0	.5	2.4	90	2.9
TOTAL	0	1	1	7	86	434	1529	1021	3079	100.0
PCT	.0	*	*	.2	2.8	14.1	49.7	33.2		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.0	.0	.0	.0	*	*	.0	.0
.0	.0	.0	.0	*	.1	.2	.1	.0	.2
.1	*	*	.2	.3	.6	1.6	.7	.0	.4
.9	.2	.2	.5	.4	1.0	3.8	3.5	.0	1.2
7.3	.6	.6	1.2	1.4	1.6	7.9	19.6	.0	1.8
8.1	.5	.3	.8	1.0	1.3	4.2	21.4	.0	1.2
.5	*	.0	*	*	*	.3	1.9	.0	.1
16.9	1.4	1.1	2.7	3.2	4.7	18.0	47.1	.0	4.9

TABLE 15

MEANS,EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00&03	82	74	71	61	57	55	54	62.4	1209
06&09	81	69	66	59	55	53	52	59.7	1090
12&15	73	70	66	59	54	52	50	59.3	1298
18&21	81	76	72	61	55	54	50	62.5	1513
TOT	82	74	70	60	55	53	50	61.1	5110

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00&03	.0	.7	3.3	19.0	54.6	22.4	84	826
06&09	.0	.1	1.2	5.6	48.5	44.5	89	674
12&15	.0	.0	1.3	6.6	44.0	48.1	89	744
18&21	.0	.2	5.2	22.5	50.3	21.7	84	866
TOT	0	9	90	439	1541	1031	86	3110

JULY

PERIOD: (PRIMARY) 1939-1973
(OVER-ALL) 1877-1973

AREA 0034 POINT HUGU NW
34.6N 121.2W

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	49 52	53 56	57 60	61 64	65 68	69 72	73 76	77 80	81 84	TOT	W FOG	WO FOG
20/22	.0	.0	.0	.0	.0	.0	.0	.0	*	1	.0	*
17/19	.0	.0	.0	.0	.0	.0	.0	*	.0	1	.0	*
14/16	.0	.0	.0	*	.1	.1	.1	.1	.0	13	*	.3
11/13	.0	.0	*	.1	.4	.1	*	*	.0	25	.1	.4
9/10	.0	.0	.0	.3	.5	.2	*	.0	.0	36	.1	.9
7/8	.0	.0	.5	1.3	.8	.3	.1	*	*	105	.3	2.8
6	.0	.0	.3	.6	.4	.1	*	*	.0	55	.1	1.5
5	.0	.1	1.0	1.8	.8	.3	*	.0	.0	136	.3	3.6
4	.0	.1	2.1	2.7	.7	.1	.1	.0	.0	203	.9	5.0
3	.0	.3	1.8	2.2	.7	.1	.0	.0	.0	173	.5	4.5
2	*	.9	4.7	5.4	.4	.1	.0	.0	.0	394	1.5	10.0
1	.0	.6	4.9	3.6	.5	.1	.0	.0	.0	335	.9	8.8
0	.1	2.3	8.9	5.4	1.0	.5	.1	.0	.0	628	3.2	15.1
-1	.1	1.8	5.5	2.6	.2	.1	.0	.0	.0	351	1.2	9.0
-2	.1	2.2	6.4	2.5	.3	.1	.0	.0	.0	401	1.7	9.9
-3	.1	.8	3.2	.6	.3	.0	.0	.0	.0	176	.8	4.4
-4	.1	1.0	2.9	.7	.1	*	*	.0	.0	166	.6	4.3
-5	.1	.4	1.5	.4	.1	*	.0	.0	.0	86	.6	1.9
-6	.0	.4	1.0	.3	.0	.0	.0	.0	.0	57	.2	1.4
-7/-8	.0	.5	1.0	.2	.1	.0	.0	.0	.0	60	.3	1.5
-9/-10	.0	.3	.5	*	.0	.0	.0	.0	.0	26	.2	.6
-11/-13	.0	.1	.1	.0	.0	.0	.0	.0	.0	8	.0	.2
-14/-16	.0	.1	*	.0	.0	.0	.0	.0	.0	6	*	.1
-17/-19	.0	.0	*	.0	.0	.0	.0	.0	.0	1	.0	*
TOTAL	18	411	1596	1061	256	74	19	6	2	3443	457	2986
PCT	.5	11.9	46.4	30.8	7.4	2.1	.6	.2	.1	100.0	13.3	86.7

PERIOD: (OVER-ALL) 1963-1973

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.3	.0	.0	.0	.0	.3
1-2	.2	2.2	1.0	.0	.0	.0	3.4
3-4	.1	1.7	4.9	1.4	.0	.0	8.1
5-6	.0	.5	4.3	1.6	.0	.0	6.5
7	.0	.0	1.0	.7	.0	.0	1.7
8-9	.0	.0	.5	.8	.0	.0	1.3
10-11	.0	.0	.3	.6	.0	.0	.9
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.1	.0	.0	.1
17-19	.0	.0	.0	.0	.1	.0	.1
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	4.7	12.2	5.2	.1	.0	22.5

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	*	.1	.0	.0	.0	.0	.1
1-2	.1	.3	.0	.0	.0	.0	.4
3-4	.0	*	.2	.0	.0	.0	.2
5-6	.0	.1	.1	.0	.0	.0	.2
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.1	.1	.0	.0	.0	.2
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.1	.6	.4	.0	.0	.0	1.2

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.1	.0	.0	.0	.0	.1
1-2	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.1	.1	.0	.0	.0	.0	.1

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	.5	*	.0	.0	.0	.8
1-2	.1	.2	.0	.0	.0	.0	.3
3-4	.0	*	.0	.0	.0	.0	*
5-6	.0	*	.0	.0	.0	.0	*
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	.8	*	.0	.0	.0	1.1

PERIOD: (OVER-ALL) 1963-1979

JULY

AREA 0034 POINT MUGU NW
34.6N 121.2W

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

S

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	.6	.1	.0	.0	.0	.9
1-2	.2	.8	.5	.0	.0	.0	1.5
3-4	.0	.2	.1	.0	.0	.0	.3
5-6	.0	.2	.0	.0	.0	.0	.2
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.4	1.8	.6	.0	.0	.0	2.8

SW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	.4	.0	.0	.0	.0	.6
1-2	.1	.8	.3	.0	.0	.0	1.2
3-4	.0	*	.1	.0	.0	.0	.1
5-6	.0	.3	.1	.0	.0	.0	.4
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	1.5	.5	.0	.0	.0	2.3

W

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	.6	.1	.0	.0	.0	.9
1-2	.2	3.8	1.3	.0	.0	.0	5.3
3-4	.1	1.0	1.3	.1	.0	.0	2.5
5-6	.0	.4	.9	.1	.0	.0	1.4
7	.0	.0	.1	.1	.1	.0	.3
8-9	.0	.1	.1	.1	.0	.0	.2
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.5	6.0	3.9	.3	.1	.0	10.8

NW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.2	.8	.1	.0	.0	.0	1.1	
1-2	.4	6.6	5.2	.0	.0	.0	12.2	
3-4	.4	4.4	11.1	2.4	.0	.0	18.3	
5-6	.0	.9	8.0	4.0	.1	.0	13.0	
7	.0	.4	3.3	2.5	.2	.0	6.4	
8-9	.0	.1	2.0	1.3	.0	.0	3.4	
10-11	.0	.0	.3	.7	.0	.0	1.0	
12	.0	.0	.0	.3	.0	.0	.3	
13-16	.0	.0	.0	.3	.2	.0	.5	
17-19	.0	.0	.0	.0	*	.0	*	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	1.0	13.3	29.9	11.6	.5	.0	56.3	97.3

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	3.8	3.5	.3	.0	.0	.0	7.6	
1-2	1.5	14.8	8.4	.0	.0	.0	24.6	
3-4	.6	7.4	17.6	3.9	.0	.0	29.5	
5-6	.0	2.5	13.5	5.7	.1	.0	21.7	
7	.0	.4	4.5	3.3	.3	.0	8.5	
8-9	.0	.3	2.7	2.2	.0	.0	5.2	
10-11	.0	.0	.6	1.3	.0	.0	1.9	
12	.0	.0	.0	.3	.0	.0	.3	
13-16	.0	.0	.0	.4	.2	.0	.6	
17-19	.0	.0	.0	.0	.1	.0	.1	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	5.9	28.8	47.0	17.0	.7	.0	100.0	1003

PERIOD: (OVER-ALL) 1949-1973

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	1.1	11.9	16.6	8.7	3.8	1.1	.5	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	826	4
6-7	.1	1.6	6.1	9.6	7.6	4.3	1.1	.4	.3	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	585	6
8-9	.1	.5	1.6	3.4	3.8	2.5	1.0	.7	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	369	7
10-11	.0	.3	.6	.5	.9	.6	.8	.1	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	87	8
12-13	.0	.0	.4	.4	.2	.3	.2	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	33	7
>13	.0	.0	.0	.3	.0	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	10	7
INDET	1.7	.4	.9	.6	.3	.0	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	76	2
TOTAL	55	277	494	440	312	170	72	29	34	3	0	0	0	0	0	0	0	0	0	1886	5
PCT	2.9	14.7	26.2	23.3	16.5	9.0	3.8	1.5	1.8	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

AUGUST

PERIOD: (PRIMARY) 1937-1973
(OVER-ALL) 1869-1973

AREA 0034 POINT HUEN NW
34.6N 121.3W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA				
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	.3	.1	1.7	.0	.0	.0	.0	2.0	.5	.1	11.7	.1	5.3	.0		80.3
NE	.0	.0	3.2	.0	.0	.0	.0	3.2	.0	.0	27.7	1.4	5.6	.0		62.1
E	1.0	.0	3.0	.0	.0	.0	.0	3.0	.0	.0	51.0	3.5	3.0	.0		39.5
SE	1.0	.0	1.0	.0	.0	.0	.0	1.0	.0	.0	42.6	.5	6.1	.0		49.7
S	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	29.5	.0	11.1	.0		59.4
SW	.2	.0	1.2	.0	.0	.0	.0	1.4	.8	.0	31.5	.0	12.0	.0		54.4
W	.2	.0	.7	.0	.0	.0	.0	1.0	.1	.2	21.8	.4	15.6	.0		61.0
NW	.2	.0	1.5	.0	.0	.0	.0	1.6	.2	*	13.2	.2	7.4	.0		77.3
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0
CALM	.3	.0	.0	.0	.0	.0	.0	.3	.3	.0	43.4	.7	16.8	.0		38.5
TOT PCT	.3	*	1.3	.0	.0	.0	.0	1.5	.3	.1	18.5	.3	9.2	.0		70.1
TOT OBS:	4169															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA				
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00&03	.1	.0	.7	.0	.0	.0	.0	.8	.2	.0	10.7	.2	11.2	.0		76.9
06&09	.2	.0	1.4	.0	.0	.0	.0	1.4	.2	.1	15.1	.1	7.4	.0		75.6
12&15	.6	.1	2.8	.0	.0	.0	.0	3.3	.5	.1	26.2	.3	6.4	.0		63.2
18&21	.2	.0	.7	.0	.0	.0	.0	.9	.2	.1	21.1	.6	11.3	.0		65.8
TOT PCT	.3	*	1.4	.0	.0	.0	.0	1.6	.3	.1	18.4	.3	9.2	.0		70.1
TOT OBS:	4212															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	.7	4.4	10.3	3.1	.1	.0		18.6	15.1	19.0	14.7	21.6	18.2	20.3	18.8	18.9	15.4
NE	.5	.8	.3	*	.0	.0		1.6	7.4	.9	.8	1.2	.6	3.3	2.5	2.1	.8
E	.6	.6	*	.0	.0	.0		1.3	4.0	.2	.7	.6	1.5	2.7	2.8	.4	1.5
SE	.3	.8	.1	*	.0	.0		1.2	5.9	.6	.5	.9	2.0	1.6	2.2	.9	1.5
S	.5	1.0	.1	*	.0	.0		1.6	5.8	1.0	1.4	.8	1.3	.7	1.8	3.4	2.5
SW	1.0	1.5	.6	*	.0	.0		3.1	6.7	2.0	2.0	2.5	2.8	1.8	4.3	5.1	4.2
W	2.4	9.4	5.1	.6	*	.0		17.6	9.2	24.9	22.9	13.6	16.8	8.9	10.6	18.8	23.2
NW	2.4	13.9	25.0	6.2	.1	.0		47.6	14.0	50.1	55.1	52.9	44.8	46.4	44.4	41.4	47.7
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	7.3							7.3	.0	1.3	1.9	5.9	12.0	14.3	12.5	8.9	3.2
TOT OBS	746	1522	1945	472	9	0	4694		11.6	777	366	631	425	638	522	704	631
TOT PCT	15.9	32.4	41.4	10.1	.2	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	2.3	8.5	7.0	.8	.0		18.6	15.1	17.6	20.2	19.7	17.2
NE	.9	.6	.2	.0	.0		1.6	7.4	.9	1.0	3.0	1.5
E	1.1	.2	.0	.0	.0		1.3	4.0	.4	1.0	2.8	.9
SE	.9	.4	*	.0	.0		1.2	5.9	.6	1.3	1.9	1.2
S	1.1	.4	.1	.0	.0		1.6	5.8	1.1	1.0	1.2	3.0
SW	1.9	1.1	.1	*	.0		3.1	6.7	2.0	2.7	2.9	4.7
W	6.3	9.3	1.9	*	.0		17.6	9.2	24.3	14.9	9.7	20.9
NW	7.3	23.0	15.9	1.4	.0		47.6	14.0	51.7	49.6	45.5	44.4
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	7.3						7.3	.0	1.5	8.3	13.4	6.2
TOT OBS	1362	2042	1184	106	0	4694		11.6	1143	1056	1160	1335
TOT PCT	29.0	43.5	25.2	2.3	.0		100.0		100.0	100.0	100.0	100.0

AUGUST

PERIOD: (PRIMARY) 1937-1973
(OVER-ALL) 1869-1973

AREA 0034 POINT MUGU NW
34.0N 121.3W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	1.5	4.2	32.9	49.0	12.2	.3	.0	13.3	100.0	1143
06&09	8.3	7.7	29.4	43.6	11.0	.1	.0	12.1	100.0	1056
12&15	13.4	12.0	27.8	36.6	9.9	.3	.0	10.6	100.0	1160
18&21	6.2	10.0	38.5	37.5	7.6	.1	.0	10.7	100.0	1335
TOT	344	402	1522	1945	472	9	0	11.6		4694
PCT	7.3	8.6	32.4	41.4	10.1	.2	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	5.8	.8	3.0	9.0		5.1
NE	.7	.1	.3	1.0		4.9
E	.3	.1	.1	.8		5.6
SE	.3	.1	.1	.8		6.1
S	.4	.2	.3	.8		5.4
SW	1.1	.2	.6	1.2		4.6
W	8.5	1.6	3.0	6.1		3.9
NW	15.8	2.8	5.9	18.5		4.6
VAR	.0	.0	.0	.0		.0
CALM	3.0	.5	.7	5.7		5.3
TOT OBS	959	171	374	1173	2677	4.7
TOT PCT	35.8	6.4	14.0	43.8	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.8	.1	1.1	2.6	4.4	1.8	.3	*	.0	.1	7.2	
NE	.1	.0	.2	.2	.5	.1	.1	*	.0	.0	.8	
E	.4	.0	.1	.1	.2	*	*	.0	.0	*	.4	
SE	.3	.0	.1	*	.4	*	.1	*	.0	*	.3	
S	.2	.0	*	.2	.3	.2	*	.0	.0	*	.8	
SW	.2	.0	.1	.5	.6	.3	*	.0	.0	*	1.4	
W	.7	.2	1.2	1.7	3.2	1.0	.2	.0	.0	.2	10.8	
NW	2.1	.2	2.3	6.0	7.7	3.6	.7	.2	.1	.3	19.8	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	1.6	.1	.8	.9	2.3	.4	*	*	.0	*	3.7	
TOT OBS	169	16	158	330	524	199	39	10	2	19	1211	2677
TOT PCT	6.3	.6	5.9	12.3	19.6	7.4	1.5	.4	.1	.7	45.2	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM) * OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >50YD	* OR >0
* OR >6500	.4	.6	.8	.8	.8	.8	.8	.8
* OR >5000	.6	1.0	1.1	1.1	1.1	1.1	1.1	1.1
* OR >3500	1.3	2.1	2.6	2.6	2.6	2.6	2.6	2.6
* OR >2000	5.1	8.4	9.9	10.0	10.0	10.0	10.0	10.0
* OR >1000	12.9	22.3	28.3	29.4	29.5	29.5	29.5	29.5
* OR >600	17.0	31.1	39.1	41.3	41.8	41.9	41.9	41.9
* OR >300	18.2	34.0	43.3	46.8	47.5	47.7	47.7	47.7
* OR >150	18.3	34.4	43.8	47.3	48.1	48.3	48.3	48.3
* OR > 0	18.5	35.0	44.7	49.2	51.5	52.8	54.4	54.6
TOTAL	497	940	1202	1322	1385	1420	1462	1468

TOTAL NUMBER OF OBS: 2687

PCT FREQ NH <5/8: 45.4

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
27.7	5.6	5.4	2.8	2.8	2.7	5.4	5.4	36.7	5.6	2801

AUGUST

PERIOD: (PRIMARY) 1937-1973
(OVER-ALL) 1869-1973

AREA 0034 POINT MUGU NW
34.6N 121.3W

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	PCP	*	.0	*	*	.0	.0	*	.1	.0	.0	.2	
<1/2	NO PCP	.3	.1	.2	.2	.1	.2	.3	1.0	.0	.8	3.2	
	TOT %	.4	.1	.2	.2	.1	.2	.3	1.1	.0	.8	3.4	
	PCP	*	.0	.0	.0	.0	*	*	*	.0	.0	.1	
1/2<1	NO PCP	.5	.1	.1	*	*	.1	.5	1.0	.0	.5	2.8	
	TOT %	.5	.1	.1	*	*	.1	.6	1.0	.0	.5	2.9	
	PCP	*	.0	.0	.0	.0	.0	.0	.1	.0	.0	.1	
1<2	NO PCP	.3	.1	.2	.1	.1	.3	1.2	1.2	.0	.7	4.2	
	TOT %	.3	.1	.2	.1	.1	.3	1.2	1.2	.0	.7	4.3	
	PCP	.1	.0	.0	.0	.0	*	*	.2	.0	*	.4	
2<5	NO PCP	.9	.3	.1	.1	.3	.5	3.2	3.5	.0	1.9	10.8	
	TOT %	1.0	.3	.1	.1	.3	.5	3.2	3.7	.0	1.9	11.2	
	PCP	.1	*	.0	.0	.0	.0	.1	.2	.0	.0	.4	
5<10	NO PCP	6.6	.4	.2	.3	.6	1.2	7.1	17.2	.0	2.5	36.2	
	TOT %	6.7	.5	.2	.3	.6	1.2	7.2	17.4	.0	2.5	36.5	
	PCP	.1	*	.0	.0	.0	*	*	.1	.0	.0	.3	
10+	NO PCP	10.0	.7	.3	.3	.5	.8	5.2	22.7	.0	.8	41.3	
	TOT %	10.1	.7	.3	.3	.5	.8	5.3	22.8	.0	.8	41.6	
	TOT OBS												4162
	TOT PCT	19.0	1.7	1.2	1.2	1.5	3.1	17.7	47.3	.0	7.3	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	0-3	.0	*	.1	.1	.1	.1	.1	.1	.0	.9	1.6	
<1/2	4-10	.1	*	.1	.1	*	.1	.3	.5	.0		1.3	
	11-21	.3	.0	.0	.0	.0	*	*	.5	.0		.8	
	22+	*	.0	.0	.0	.0	.0	*	.1	.0		.2	
	TOT %	.4	.1	.2	.2	.1	.2	.4	1.3	.0	.9	3.8	
	0-3	.1	*	.1	.0	.0	.1	.2	.1	.0	.5	1.0	
1/2<1	4-10	.1	*	*	*	*	*	.3	.4	.0		.9	
	11-21	.2	.0	.0	*	.0	.0	.1	.5	.0		.8	
	22+	*	.0	.0	.0	.0	.0	.0	.1	.0		.1	
	TOT %	.5	.1	.1	.1	*	.1	.6	1.1	.0	.5	2.9	
	0-3	.1	.1	.1	.1	.1	.2	.3	.2	.0	.8	1.8	
1<2	4-10	.1	*	.1	*	*	.1	.7	.7	.0		1.8	
	11-21	.1	.0	.0	.0	.0	.0	.2	.6	.0		.9	
	22+	*	.0	.0	.0	.0	.0	*	.1	.0		.2	
	TOT %	.4	.1	.2	.1	.1	.3	1.2	1.6	.0	.8	4.7	
	0-3	.2	.2	.1	*	.1	.2	.6	.5	.0	1.8	3.8	
2<5	4-10	.4	.1	.1	.1	.2	.5	2.0	1.8	.0		4.9	
	11-21	.5	*	.0	*	*	.1	.7	1.9	.0		3.2	
	22+	.1	.0	.0	.0	.0	.0	*	.4	.0		.5	
	TOT %	1.1	.3	.2	.2	.3	.6	3.3	4.6	.0	1.8	12.4	
	0-3	.3	.1	.1	*	.2	.2	.9	.9	.0	2.4	5.1	
5<10	4-10	1.4	.2	.1	.2	.3	.7	3.6	4.9	.0		11.5	
	11-21	3.6	.1	*	.1	*	.3	2.2	8.7	.0		15.0	
	22+	1.2	.0	.0	*	*	*	.2	2.2	.0		3.6	
	TOT %	6.4	.4	.2	.3	.6	1.2	6.8	16.8	.0	2.4	35.1	
	0-3	.1	*	.1	.1	.1	.2	.3	.6	.0	.9	2.4	
10+	4-10	2.1	.4	.2	.2	.4	.3	2.8	5.4	.0		11.8	
	11-21	5.7	.2	.0	*	.1	.2	2.0	12.9	.0		21.0	
	22+	1.9	*	.0	.0	.0	*	.3	3.5	.0		5.8	
	TOT %	9.8	.7	.3	.3	.5	.8	5.4	22.3	.0	.9	41.1	
	TOT OBS												4527
	TOT PCT	18.6	1.6	1.2	1.2	1.6	3.1	17.7	47.7	.0	7.3	100.0	

AUGUST

PERIOD: (PRIMARY) 1937-1973
(OVER-ALL) 1869-1973

AREA 0034 POINT HUGU NW
34.6N 121.3W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET,NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00&03	2.3	.9	4.6	12.1	17.7	7.2	1.6	.4	.0	.6	47.4	52.6	694
06&09	6.2	.2	4.3	10.9	16.4	7.4	.8	.0	.2	.6	47.0	53.0	658
12&15	12.3	.8	7.3	10.7	22.0	7.0	.8	.8	.0	.6	62.5	37.5	626
18&21	4.9	.5	7.1	15.0	21.3	8.0	2.6	.3	.1	1.1	60.8	39.2	742
TOT	170	16	159	334	527	202	40	10	2	20	1480	1240	2720
PCT	6.3	.6	5.8	12.3	19.4	7.4	1.5	.4	.1	.7	54.4	45.6	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00&03	1.4	2.4	2.9	10.1	37.4	46.0	1103
06&09	3.8	1.8	3.3	9.4	35.0	46.6	1039
12&15	7.5	4.5	5.8	14.3	32.3	35.5	1126
18&21	2.7	3.1	6.2	14.9	36.2	37.0	1304
TOT	175	136	212	564	1612	1873	4572
PCT	3.8	3.0	4.6	12.3	35.3	41.0	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET,NH >4/8),BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	2.3	8.0	30.4	22.7	46.9	684
06&09	6.3	10.6	30.1	20.2	49.7	652
12&15	12.5	22.7	46.4	21.8	31.7	618
18&21	4.8	13.4	41.6	24.0	34.4	733
TOT	169	362	996	598	1093	2687
PCT	6.3	13.5	37.1	22.3	40.7	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
80/84	.0	.0	.1	.0	.0	*	.0	.0	3	.1
75/79	.0	.0	.0	.1	.2	.1	.2	.0	16	.6
70/74	.0	.0	*	.3	1.0	1.5	.7	.3	101	3.7
65/69	.0	.0	.0	.1	.7	4.9	8.8	2.9	474	17.4
60/64	.0	.0	.0	*	.6	6.1	24.6	18.0	1346	49.4
55/59	.0	.0	.0	*	*	1.1	11.4	15.6	767	28.1
50/54	.0	.0	.0	.0	.0	.0	.2	.5	20	.7
TOTAL	0	0	3	14	69	374	1252	1015	2727	100.0
PCT	.0	.0	.1	.5	2.5	13.7	45.9	37.2		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.1	.0	.0	.0	.0	.0	.0	*	.0	.0
*	.0	.0	.0	.1	..	.1	.3	.0	*
.5	.1	.1	.1	.3	.5	1.1	.7	.0	.4
2.4	.4	.2	.1	.4	.7	5.4	8.2	.0	1.7
10.4	.8	.7	.6	.6	1.1	7.7	25.4	.0	2.2
6.3	.5	.2	.2	.1	.4	1.8	17.1	.0	1.7
.2	.0	.0	.0	.0	.0	*	.5	.0	.0
19.9	1.8	1.0	.9	1.4	2.8	16.1	50.0	.0	6.0

TABLE 15

MEANS,EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00&03	85	76	70	62	58	55	50	63.1	1147
06&09	79	70	66	61	56	54	48	60.9	1060
12&15	84	70	65	60	55	54	46	59.9	1169
18&21	83	75	71	63	57	54	52	63.0	1349
TOT	85	74	69	61	56	54	46	61.8	4725

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00&03	.0	1.2	4.0	18.1	51.2	25.5	85	734
06&09	.0	.2	.9	9.0	43.0	46.9	89	635
12&15	.0	.5	.8	7.0	38.0	53.8	90	658
18&21	.0	.7	4.2	19.5	50.3	25.3	85	732
TOT	0	18	71	379	1267	1024	87	2759

PERIOD: (PRIMARY) 1937-1973
(OVER-ALL) 1869-1973

AREA 0034 POINT HUGU NW
34.6N 121.3W

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	45 48	49 52	53 56	57 60	61 64	65 68	69 72	73 76	77 80	81 84	TOT	W FOG	WO FOG
20/22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	2	.0	.1
17/19	.0	.0	.0	.0	.0	.0	.0	.0	*	.0	1	.0	*
14/16	.0	.0	.0	.0	.0	*	*	.1	.2	.0	9	.0	.3
11/13	.0	.0	.0	.0	.1	*	.3	.1	*	.0	17	*	.5
9/10	.0	.0	.0	.0	.1	.5	.4	.1	.0	.0	33	.0	1.1
7/8	.0	.0	.0	.2	.8	.8	.5	.2	.1	*	81	.1	2.5
6	.0	.0	*	.2	.7	.4	.1	.1	.0	.0	49	.1	1.4
5	.0	.0	.0	.7	1.9	1.0	.5	*	*	.0	129	.4	3.7
4	.0	.0	.1	.9	2.9	1.3	.3	.1	.1	.0	176	.7	4.9
3	.0	.0	.1	1.4	1.8	1.3	.3	.0	.0	.0	155	.3	4.6
2	.0	.0	.4	3.9	6.4	1.3	.2	.0	.1	.0	386	1.7	10.6
1	.0	.0	.2	2.4	3.7	1.2	.2	.0	*	.0	241	.9	6.7
0	.0	*	1.1	7.4	8.0	1.7	.4	.2	.1	.0	591	3.4	15.4
-1	.0	.0	.7	5.3	3.7	.9	.1	.0	*	.0	237	1.3	9.4
-2	*	*	1.0	6.6	3.9	.4	.0	*	.0	.0	379	1.9	10.2
-3	.0	.0	.6	2.6	1.8	.4	.0	*	.0	.0	170	.4	5.0
-4	.0	*	.5	2.8	1.4	.2	.0	.0	*	.0	154	.8	4.1
-5	.0	.0	.4	1.8	.6	.1	.0	.0	.0	.0	89	.5	2.4
-6	.0	.0	.4	.7	.6	*	.0	.0	.0	.0	52	.0	1.7
-7/-8	.0	*	.5	.5	.4	.1	.0	.0	.0	.0	51	.2	1.4
-9/-10	.0	*	.1	.3	.2	.0	*	.0	.0	.0	22	.2	.5
-11/-13	.0	.0	.1	.2	.1	*	.0	.0	.0	.0	13	.1	.4
-14/-16	.0	.0	.1	.1	.0	.0	.0	.0	.0	.0	4	.0	.1
-17/-19	.0	.0	*	.0	.0	.0	.0	.0	.0	.0	1	.0	*
TOTAL	1	5	192	1189	1233	372	102	24	21	3	3142	411	2731
PCT	*	.2	6.1	37.8	39.2	11.8	3.2	.8	.7	.1	100.0	13.1	86.9

PERIOD: (OVER-ALL) 1963-1973

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.9	.1	.0	.0	.0	1.1
1-2	.1	2.3	2.2	.0	.0	.0	4.7
3-4	.0	1.6	5.6	1.2	.0	.0	8.4
5-6	.0	.1	2.9	1.4	.0	.0	4.4
7	.0	.2	1.7	.5	.0	.0	2.5
8-9	.0	.0	1.0	.6	.0	.0	1.6
10-11	.0	.0	.5	.3	.0	.0	.8
12	.0	.0	.2	.2	.0	.0	.4
13-16	.0	.0	.0	.1	.0	.0	.1
17-19	.0	.0	.0	.0	.1	.0	.1
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	5.2	14.2	4.4	.1	.0	24.0

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.3	.0	.0	.0	.0	.4
1-2	.1	.3	.1	.0	.0	.0	.5
3-4	.0	.2	.2	.0	.0	.0	.4
5-6	.0	.1	.4	.0	.0	.0	.5
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	*	.0	.0	.0	*
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	.9	.7	.0	.0	.0	1.8

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.2	.0	.0	.0	.0	.2
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.2	.0	.0	.0	.0	.2

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.1	.3	.0	.0	.0	.4
3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.1	.3	.0	.0	.0	.4

PERIOD: (OVER-ALL) 1963-1973 AUGUST AREA C034 POINT MUGU NW
TABLE 18 (CONT) 34.6N 121.3W

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

	S							SW						
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	.2	.0	.0	.0	.0	.4	.2	*	.0	.0	.0	.0	.2
1-2	.1	.2	.1	.0	.0	.0	.4	.1	.4	.1	.0	.0	.0	.7
3-4	.0	.3	.3	.0	.0	.0	.6	.1	.1	.2	.1	.0	.0	.5
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.1
7	.0	.1	.0	.0	.0	.0	.1	.1	*	.0	.0	.0	.0	.1
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	.8	.4	.0	.0	.0	1.4	.5	.5	.5	.1	.0	.0	1.6

	W							NW							TOTAL
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	PCT
<1	.2	.9	.0	.0	.0	.0	1.1	.6	1.8	.2	.0	.0	.0	2.6	
1-2	.3	2.7	1.4	.0	.0	.0	4.4	.1	6.3	5.5	.0	.0	.0	11.9	
3-4	.1	1.2	1.4	.3	.0	.0	3.0	.0	3.5	13.8	2.9	.0	.0	20.2	
5-6	.0	.2	.5	.1	.0	.0	.8	.0	1.2	7.6	2.4	.0	.0	11.1	
7	.0	.0	.7	.2	.0	.0	.9	.0	.5	4.4	1.8	.0	.0	6.7	
8-9	.0	.0	.2	.0	.0	.0	.2	.0	.1	2.0	.9	.1	.0	3.2	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.1	.7	.8	.0	.0	1.7	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.1	.0	.0	.3	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.2	.0	.0	.3	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	.0	*	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.7	4.9	4.3	.5	.0	.0	10.4	.7	13.4	34.6	9.1	.1	.0	58.1	98.0

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	3.3	4.2	.3	.0	.0	.0	7.9	
1-2	1.1	12.3	9.7	.0	.0	.0	23.2	
3-4	.2	7.1	21.3	4.6	.0	.0	33.1	
5-6	.0	1.6	11.3	4.0	.0	.0	16.9	
7	.1	.8	6.7	2.5	.0	.0	10.2	
8-9	.0	.1	3.2	1.5	.1	.0	4.9	
10-11	.0	.1	1.3	1.1	.0	.0	2.5	
12	.0	.0	.5	.2	.0	.0	.7	
13-16	.0	.0	.1	.3	.0	.0	.5	
17-19	.0	.0	.0	.0	.1	.0	.1	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
								875
TOT PCT	4.8	26.3	54.4	14.3	.2	.0	100.0	

PERIOD: (OVER-ALL) 1949-1973 TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	1.6	11.7	16.8	9.8	4.8	1.0	.7	.2	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	733	4
6-7	.1	1.6	7.5	9.5	5.8	2.4	1.1	.5	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	460	5
8-9	.1	.5	2.8	2.7	2.4	2.4	1.2	.5	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	203	6
10-11	.0	.4	1.1	1.1	1.0	1.2	.9	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	95	6
12-13	.0	.0	.3	.6	.2	.3	.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	29	7
>13	.0	.0	.0	.0	.5	.3	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	17	8
INDET	1.3	.7	.4	.2	.1	.5	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	53	3
TOTAL	49	297	464	385	238	130	73	24	9	1	0	0	0	0	0	0	0	0	0	1610	5
PCT	3.0	14.7	28.8	23.9	14.8	8.1	4.5	1.5	.6	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

SEPTEMBER

PERIOD: (PRIMARY) 1937-1973
(OVER-ALL) 1864-1973

AREA 0034 POINT MUGU NW
34.0N 121.2W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA				
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	ND SIG WEA
N	.1	.0	1.3	.0	.0	.0	.0	1.4	.4	.3	10.7	.1	5.8		.0	81.3
NE	1.1	.0	.3	.0	.0	.0	.0	1.4	.0	.0	29.6	1.1	10.3		.0	57.6
E	.0	.0	1.2	.0	.0	.0	.0	1.2	.0	.0	31.0	.0	13.4		.0	54.4
SE	.0	.0	1.2	.0	.0	.0	.0	1.2	.6	.0	29.0	1.2	8.9		.0	59.2
S	.0	.0	.0	.0	.0	.0	.0	.0	.7	.0	22.7	.0	16.1		.0	60.5
SW	1.3	.0	1.4	.0	.0	.0	.0	2.7	.0	.7	20.7	1.1	15.1		.0	59.7
W	.4	.0	.5	.0	.0	.0	.0	.9	.0	.0	16.9	.1	15.3		.0	66.9
NW	.2	.0	.7	.0	.0	.0	.0	.9	.1	.1	11.9	.3	7.1		.0	79.7
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	.0
CALM	.0	.0	.7	.0	.0	.0	.0	.7	.0	.0	40.0	.0	14.5		.0	44.8
TOT PCT	.3	.0	.8	.0	.0	.0	.0	1.1	.2	.1	16.3	.3	9.5		.0	72.7
TOT OBS:	3993															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA				
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	ND SIG WEA
00&03	.0	.0	.5	.0	.0	.0	.0	.5	.1	.0	12.1	.0	12.1		.0	75.1
06&09	.4	.0	1.0	.0	.0	.0	.0	1.4	.1	.3	15.7	.0	6.8		.0	75.7
12&15	.2	.1	1.2	.0	.0	.0	.0	1.6	.2	.0	21.5	.4	6.6		.0	69.7
18&21	.3	.1	.6	.0	.0	.0	.0	1.0	.2	.1	13.9	.6	12.0		.0	70.4
TOT PCT	.2	*	.8	.0	.0	.0	.0	1.1	.1	.1	16.3	.3	9.6		.0	72.3
TOT OBS:	4051															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	1.5	6.0	8.6	2.2	.1	.0		18.4	13.1	19.7	10.7	21.5	16.3	23.7	18.6	20.1	16.7
NE	.9	1.0	.3	.1	.0	.0		2.3	6.0	.4	1.4	1.9	2.8	3.6	5.9	2.1	.9
E	.9	1.0	.2	*	.0	.0		2.0	4.9	.7	.2	1.3	3.5	4.0	4.3	1.3	1.4
SE	.8	1.1	.2	*	.0	.0		2.2	6.0	1.2	1.9	1.8	3.2	2.4	3.3	2.5	1.8
S	.5	1.3	.1	*	.0	.0		1.9	5.7	1.9	1.1	1.4	1.7	.9	2.2	3.6	2.0
SW	.9	2.0	.4	*	.0	.0		3.3	6.6	4.0	2.6	1.7	3.2	1.9	2.7	4.6	5.0
W	2.3	10.6	4.5	.4	.0	.0		18.0	8.7	25.9	24.5	13.6	16.7	8.8	12.2	18.0	23.4
NW	2.9	15.9	20.6	5.1	*	.0		44.6	12.8	47.1	53.3	49.6	42.2	41.5	40.5	40.4	44.9
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	7.4							7.4	.0	3.3	4.3	7.1	10.5	13.3	10.3	7.5	3.9
TOT OBS	814	1745	1562	349	4	0	4474		10.4	738	323	577	391	626	468	710	641
TOT PCT	18.2	39.0	34.9	7.8	.1	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	4.1	8.4	5.5	.5	.0		18.4	13.1	14.1	19.4	21.5	18.5
NE	1.5	.6	.1	.0	.0		2.3	6.0	.7	2.3	4.6	1.6
E	1.5	.5	*	.0	.0		2.0	4.9	.5	2.2	4.1	1.3
SE	1.5	.5	.1	*	.0		2.2	6.0	1.4	2.4	2.8	2.2
S	1.4	.5	*	*	.0		1.9	5.7	1.6	1.5	1.5	2.8
SW	1.9	1.4	.1	.0	.0		3.3	6.6	3.6	2.3	2.3	4.8
W	7.0	9.5	1.5	.1	.0		18.0	8.7	25.5	14.9	10.3	20.5
NW	8.6	22.7	12.7	.6	.0		44.6	12.8	49.0	46.6	41.0	42.5
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	7.4						7.4	.0	3.6	8.5	12.0	5.8
TOT OBS	1561	1967	895	51	0	4474		10.4	1061	968	1094	1351
TOT PCT	34.9	44.0	20.0	1.1	.0		100.0		100.0	100.0	100.0	100.0

SEPTEMBER

PERIOD: (PRIMARY) 1937-1973
(OVER-ALL) 1864-1973

AREA 0034 POINT MUGU NW
34.0N 121.2W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	3.6	8.1	39.3	40.1	8.9	.1	.0	11.5	100.0	1081
06&09	8.5	11.8	34.8	35.7	9.2	.0	.0	10.7	100.0	968
12&15	12.0	11.4	35.4	33.2	8.0	.1	.0	9.7	100.0	1094
18&21	5.8	11.8	44.7	31.7	5.8	.1	.0	9.8	100.0	1331
TOT	329	485	1745	1562	349	4	0	10.4		4474
PCT	7.4	10.8	39.0	34.9	7.8	.1	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	7.6	1.2	2.7	7.2		4.3
NE	1.3	.1	.2	.9		3.9
E	1.1	.1	.4	.7		3.8
SE	.8	.2	.3	.7		4.2
S	.7	.1	.1	.9		4.8
SW	1.1	.4	.7	1.1		4.6
W	10.2	1.3	1.9	4.9		3.2
NW	19.6	2.1	7.0	13.1		3.9
VAR	.0	.0	.0	.0		.0
CALM	3.9	.3	1.0	4.1		4.4
TOT OBS	1234	157	385	894	2670	3.9
TOT PCT	46.2	5.9	14.4	33.5	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NM >4/8) AND OCCURRENCE OF NM <5/8 BY WIND DIRECTION

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NM <5/8 ANY HGT	TOTAL OBS
N	.5	.2	1.0	1.8	3.6	1.6	.2	.1	.1	.1	9.5	
NE	.2	.0	*	.3	.2	.2	*	.0	.0	*	1.5	
E	.2	.0	*	.2	.3	.1	*	.0	.0	.0	1.3	
SE	.2	.0	.1	.1	.3	.1	*	.0	.0	*	1.0	
S	.1	.0	.2	.1	.5	*	.0	*	.0	.1	.9	
SW	.2	.0	.1	.4	.6	.2	*	.1	.0	*	1.6	
W	1.1	.1	.4	1.5	2.0	.6	.2	.1	*	.1	12.3	
NW	2.4	.2	1.3	4.0	6.9	2.5	.7	.4	.2	.2	23.2	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	1.2	.0	.5	1.3	1.5	.1	.0	*	.0	.1	4.5	
TOT OBS	166	14	95	258	426	147	35	18	8	14	1489	2670
TOT PCT	6.2	.5	3.6	9.7	16.0	5.5	1.3	.7	.3	.5	55.8	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NM >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM) * OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >50YD	* OR >0
* OR >6500	.5	.8	.8	.8	.8	.8	.8	.8
* OR >5000	.9	1.5	1.5	1.5	1.5	1.5	1.5	1.5
* OR >3500	1.9	2.7	2.8	2.8	2.8	2.8	2.8	2.8
* OR >2000	5.2	7.8	8.3	8.3	8.3	8.3	8.3	8.3
* OR >1000	12.4	20.6	23.7	24.1	24.2	24.2	24.2	24.2
* OR >600	15.3	27.0	31.9	33.4	33.7	33.7	33.7	33.7
* OR >300	16.0	29.0	34.9	36.9	37.3	37.4	37.4	37.4
* OR >150	16.1	29.3	35.3	37.4	37.8	37.9	37.9	37.9
* OR > 0	16.2	29.8	36.3	38.8	40.1	41.3	43.8	43.9
TOTAL	436	800	975	1042	1078	1109	1177	1180

TOTAL NUMBER OF OBS: 2685 PCT FREQ NM <5/8: 56.1

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
37.2	6.7	5.6	3.0	2.7	2.2	4.9	6.2	26.0	5.6	2792

PERIOD: (PRIMARY) 1937-1973
(OVER-ALL) 1864-1973

AREA 0034 POINT MUGU NW
34.0N 121.2W

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	*	.0	.0	.1	.1	.0	.0	.2	
	NO PCP	.5	.2	.2	.2	.2	.2	.5	1.7	.0	.8	4.2	
	TOT %	.5	.2	.2	.2	.2	.2	.5	1.7	.0	.8	4.4	
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	*	.0	.1	.1	
	NO PCP	.4	.2	.1	.0	*	.1	.5	.8	.0	.4	2.5	
	TOT %	.4	.2	.1	.0	*	.1	.5	.8	.0	.4	2.5	
1<2	PCP	.1	*	.0	.0	.0	.0	*	*	.0	.0	.1	
	NO PCP	.3	.1	.3	.2	.1	.2	.8	1.0	.0	.5	3.4	
	TOT %	.3	.1	.3	.2	.1	.2	.8	1.0	.0	.5	3.5	
2<5	PCP	.1	.0	*	.0	.0	*	.1	.1	.0	.0	.3	
	NO PCP	.9	.3	.3	.3	.3	.5	2.4	2.0	.0	1.7	8.6	
	TOT %	1.0	.3	.3	.3	.3	.5	2.4	2.1	.0	1.7	8.8	
5<10	PCP	.1	.0	.0	.0	.0	*	*	.2	.0	.0	.3	
	NO PCP	9.7	.7	.5	.7	.7	1.1	7.4	15.5	.0	2.5	34.8	
	TOT %	9.8	.7	.5	.7	.7	1.1	7.4	15.7	.0	2.5	35.1	
10+	PCP	*	*	.0	.0	.0	*	*	.1	.0	.0	.2	
	NO PCP	10.6	.8	.7	.7	.6	1.3	6.4	22.7	.0	1.5	45.4	
	TOT %	10.6	.8	.7	.7	.6	1.3	6.5	22.8	.0	1.5	45.6	
	TOT OBS												3978
	TOT PCT	18.7	2.3	2.0	2.1	1.9	3.5	18.1	44.1	.0	7.3	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.2	.1	.1	.1	.1	.1	.2	.5	.0	.7	2.1	
	4-10	.2	.1	*	.1	*	.1	.2	.9	.0		1.7	
	11-21	.1	.0	.0	*	*	*	*	.4	.0		.6	
	22+	*	.0	.0	.0	.0	.0	.0	*	.0		*	
	TOT %	.5	.2	.2	.2	.2	.2	.5	1.8	.0	.7	4.4	
1/2<1	0-3	.1	.1	*	.0	.0	*	.2	.1	.0	.4	.9	
	4-10	.2	.2	*	.0	.1	.1	.1	.3	.0		.9	
	11-21	.2	.0	.0	.0	.0	.0	.2	.4	.0		.7	
	22+	*	.0	.0	.0	.0	.0	.0	*	.0		*	
	TOT %	.4	.2	*	.0	.1	.1	.5	.8	.0	.4	2.5	
1<2	0-3	.1	.1	.2	.1	*	*	.2	.2	.0	.4	1.3	
	4-10	.1	*	.1	.1	.1	.2	.6	.7	.0		1.9	
	11-21	.1	*	.0	*	*	*	.1	.3	.0		.5	
	22+	*	.0	.0	.0	.0	.0	*	.1	.0		.1	
	TOT %	.3	.1	.3	.2	.2	.2	.8	1.2	.0	.4	3.8	
2<5	0-3	.3	.3	.2	.2	.1	.2	.5	.5	.0	1.7	4.0	
	4-10	.3	*	.1	.2	.2	.2	1.7	1.2	.0		4.1	
	11-21	.4	*	.0	.0	.0	*	.2	.8	.0		1.4	
	22+	.1	.0	.0	.0	.0	.0	*	.1	.0		.2	
	TOT %	1.1	.3	.3	.4	.3	.5	2.4	2.6	.0	1.7	9.7	
5<10	0-3	.5	.3	.2	.2	.2	.2	1.1	1.0	.0	2.4	6.2	
	4-10	1.8	.2	.3	.4	.5	.8	4.4	5.9	.0		14.2	
	11-21	2.5	*	*	.1	*	.1	1.7	6.5	.0		10.9	
	22+	.7	.0	.0	.0	.0	.0	.1	1.8	.0		2.5	
	TOT %	5.5	.6	.5	.7	.7	1.1	7.2	15.2	.0	2.4	33.9	
10+	0-3	.4	.1	.1	.2	.1	.3	.4	.6	.0	1.7	3.9	
	4-10	3.2	.4	.4	.4	.4	.8	3.8	7.0	.0		16.4	
	11-21	5.3	.2	.1	.2	*	.3	2.3	12.1	.0		20.5	
	22+	1.4	.1	*	*	*	*	.2	3.0	.0		4.8	
	TOT %	10.4	.8	.7	.7	.6	1.3	6.7	22.7	.0	1.7	45.7	
	TOT OBS												4304
	TOT PCT	18.3	2.3	2.0	2.1	2.0	3.4	18.2	44.3	.0	7.5	100.0	

PERIOD: (PRIMARY) 1937-1973
(OVER-ALL) 1864-1973

AREA 0034 POINT MUGU NM
34.6N 121.2W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00E03	4.3	.1	2.3	10.5	12.0	4.6	1.4	.4	.4	.7	36.9	63.1	694
06E09	7.1	1.1	3.9	6.5	10.2	5.1	1.2	.5	.3	.2	36.2	63.8	644
12E15	8.9	.5	3.9	10.9	17.6	6.0	1.5	1.0	.2	.7	51.1	48.9	615
18E21	4.5	.4	4.4	9.8	22.1	5.9	1.2	.8	.3	.6	49.9	50.1	778
TOT	166	14	99	258	429	148	36	18	8	15	1191	1940	2731
PCT	6.1	.5	3.6	9.4	15.7	5.4	1.3	.7	.3	.5	43.6	56.4	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00E03	2.7	2.6	2.9	7.7	35.4	48.8	1040
06E09	5.0	1.7	3.2	7.9	33.2	49.0	942
12E15	7.4	3.7	4.7	9.9	30.0	44.3	1061
18E21	2.9	2.2	4.6	12.2	36.1	42.0	1318
TOT	192	111	171	420	1475	1992	4361
PCT	4.4	2.5	3.9	9.6	33.8	45.7	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET, NH >4/8), BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <3	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00E03	4.4	7.6	24.0	17.7	58.3	684
06E09	6.9	13.0	26.4	16.0	57.5	624
12E15	9.1	16.7	36.5	23.1	40.4	606
18E21	4.5	10.2	30.4	25.0	44.6	771
TOT	163	318	784	554	1347	2685
PCT	6.1	11.7	29.2	20.6	50.2	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
80/84	.0	.0	*	.0	.1	*	.0	.0	4	.2
75/79	.0	*	.1	.2	.2	.1	.0	*	18	.7
70/74	.0	*	.1	.2	.8	1.8	.9	.2	106	4.1
65/69	.0	*	.0	.4	1.0	6.0	10.4	3.6	555	21.4
60/64	.0	.0	.0	.1	1.6	7.8	28.0	15.5	1370	52.8
55/59	.0	.0	.0	.0	.2	1.3	8.2	10.4	520	20.0
50/54	.0	.0	.0	.0	.0	*	.2	.7	22	.8
TOTAL	0	3	6	20	95	447	1235	789	2595	100.0
PCT	.0	.1	.2	.8	3.7	17.2	47.6	30.4		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
	*	.0	*	*	.0	*	*	*	.0	.0
	.1	*	*	*	.1	.0	.2	.1	.0	.1
	.5	.2	.2	.1	.3	.4	1.4	.9	.0	.2
	3.4	.3	.2	.4	.8	1.3	5.7	7.9	.0	1.3
	11.7	.6	.5	1.2	.6	1.0	7.4	26.2	.0	3.5
	3.9	1.0	.6	.4	.3	.2	1.8	10.4	.0	1.5
	.1	.1	*	.0	.0	.0	.1	.5	.0	.1
	19.7	2.2	1.6	2.1	2.0	3.1	16.6	46.0	.0	6.7

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	90%	5%	1%	MIN	MEAN	TOTAL OBS
00E03	82	73	70	63	58	56	54	63.6	1067
06E09	81	70	66	61	56	54	50	61.2	972
12E15	82	70	65	60	55	53	51	60.3	1097
18E21	82	76	71	64	57	55	54	63.7	1361
TOT	82	73	69	62	56	54	50	62.3	4497

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00E03	.0	1.3	3.8	20.7	52.1	22.1	84	702
06E09	.0	.9	2.4	10.5	45.0	41.2	87	582
12E15	.0	.5	1.9	10.8	45.1	41.6	88	618
18E21	.0	1.8	5.9	24.8	47.6	19.9	82	727
TOT	0	30	96	493	1293	797	85	2629

SEPTEMBER

PERIOD: (PRIMARY) 1937-1973
(OVER-ALL) 1864-1973

AREA 0034 POINT HUGU NW
34.6N 121.2W

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	49 52	53 56	57 60	61 64	65 68	69 72	73 76	77 80	81 84	TOT	W FOG	WO FOG
17/19	.0	.0	.0	.0	.0	.0	.0	*	.0	1	.0	*
14/16	.0	.0	.0	.0	*	*	.1	*	.0	7	.0	.2
11/13	.0	.0	.0	.1	.2	.1	.1	.1	*	17	.0	.6
9/10	.0	.0	.0	.2	.5	.3	.1	*	*	37	.1	1.2
7/8	.0	.0	*	.4	1.1	.5	.2	.0	*	68	.1	2.1
6	.0	.0	.1	.4	.7	.2	.1	.0	.0	46	*	1.5
5	.0	*	.1	1.3	1.5	.5	.1	.0	.0	102	.2	3.2
4	.0	.0	.6	2.9	1.8	.5	.1	*	.0	180	.4	5.6
3	.0	.0	.7	2.2	1.6	.4	*	.0	.0	148	.4	4.6
2	.0	.3	2.1	5.9	2.1	.4	*	.0	.0	322	1.0	9.8
1	.0	.2	2.1	3.9	1.7	.1	.0	.0	.0	239	.9	7.1
0	.0	.6	5.4	9.8	2.8	.4	.1	.0	.0	570	2.2	16.9
-1	.0	.3	3.4	4.9	1.3	.3	.1	.0	.0	306	.7	9.6
-2	.0	.8	3.7	4.7	1.0	.2	.0	.0	.0	369	1.5	10.9
-3	.0	.5	2.0	2.5	.6	.0	.0	.0	.0	168	.8	4.8
-4	.0	.5	2.7	2.1	.4	*	.0	.0	.0	170	.8	4.9
-5	*	.5	1.3	1.1	.3	*	.0	.0	.0	95	.6	2.5
-6	.0	.2	.4	.6	.1	.0	.0	.0	.0	39	.3	1.0
-7/-8	.0	.3	.7	.7	.2	*	.0	.0	.0	57	.2	1.7
-9/-10	.0	.1	.3	.1	.1	.0	.0	.0	.0	23	.1	.7
-11/-13	.0	.3	.2	.1	.0	.0	.0	.0	.0	19	.3	.6
-14/-16	.0	.0	*	.0	.0	.0	.0	.0	.0	1	*	.0
TOTAL	1	138	774	1369	539	122	30	8	3	2984	320	2664
PCT	*	4.6	25.9	45.9	18.1	4.1	1.0	.3	.1	100.0	10.7	89.3

PERIOD: (OVER-ALL) 1963-1973

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.5	.8	.0	.0	.0	.0	1.4
1-2	.4	3.3	2.3	.0	.0	.0	5.9
3-4	.0	2.4	5.4	1.3	.0	.0	9.1
5-6	.0	.4	3.9	.6	.0	.0	4.9
7	.0	.2	1.6	.6	.0	.0	2.4
8-9	.0	.0	.5	.3	.0	.0	.7
10-11	.0	.0	.2	.5	.0	.0	.7
12	.0	.0	.1	.2	.0	.0	.3
13-16	.0	.0	.0	.0	.1	.0	.1
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.9	7.0	13.9	3.6	.1	.0	25.6

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.1	1.3	.1	.0	.0	.0	1.5
3-4	.0	.1	.2	*	.0	.0	.3
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	*	.2	.0	.0	.2
8-9	.0	.0	.1	.0	.0	.0	.1
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.1	1.9	.3	.2	.0	.0	2.6

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.2	.0	.0	.0	.0	.2
1-2	.0	.1	.2	.0	.0	.0	.3
3-4	.0	.0	.1	.0	.0	.0	.1
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.3	.3	.0	.0	.0	.6

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	*	.0	.0	.0	.0	.3
1-2	.0	.5	.1	.0	.0	.0	.6
3-4	.0	.1	*	.0	.0	.0	.2
5-6	.0	.0	.4	.0	.0	.0	.4
7	.0	.0	.1	.0	.0	.0	.1
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	.8	.7	.0	.0	.0	1.8

PERIOD: (OVER-ALL) 1963-1973 SEPTEMBER AREA 0034 POINT MUGU NW
TABLE 18 (CONT) 34.6N 121.2W

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

	S							SW						
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.1	.0	.0	.0	.0	.3	.0	.4	.0	.0	.0	.0	.4
1-2	.0	1.0	.1	.0	.0	.0	1.2	.0	.5	.0	.0	.0	.0	.5
3-4	.1	.2	.0	.0	.0	.0	.4	.0	.1	*	.0	.0	.0	.1
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.1	.1	.0	.1	.0	.0	.3	*	.1	.0	*	.0	.0	.2
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.4	1.5	.1	.1	.0	.0	2.1	*	1.1	*	*	.0	.0	1.2

	W							NW							TOTAL
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	PCT
<1	.0	1.6	.1	.0	.0	.0	1.7	.3	1.2	.0	.0	.0	.0	1.5	
1-2	.3	2.5	.6	.0	.0	.0	3.3	.9	5.9	6.3	.0	.0	.0	13.1	
3-4	.0	1.5	1.4	.1	.0	.0	3.0	.3	4.1	10.3	2.0	.0	.0	16.6	
5-6	.1	.4	.5	.1	.0	.0	1.1	.0	2.1	8.3	1.9	.0	.0	12.2	
7	.0	.0	.2	.0	.0	.0	.2	.1	.3	3.4	1.9	.0	.0	5.7	
8-9	.0	.0	.1	.0	.0	.0	.1	.0	.1	1.2	1.0	.0	.0	2.3	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.3	.0	.0	.4	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	*	.0	.0	.1	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.0	.0	.3	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.4	6.0	2.9	.2	.0	.0	9..	1.6	13.7	29.5	7.4	.0	.0	52.1	95.3

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	5.9	5.1	.1	.0	.0	.0	11.2	
1-2	1..	15.1	9.7	.0	.0	.0	26.5	
3-4	.4	8.4	17.2	3.5	.0	.0	29.5	
5-6	.1	3.0	13.0	2.6	.0	.0	18.7	
7	.3	.8	5.3	2.8	.0	.0	9.1	
8-9	.0	.1	1.8	1.3	.0	.0	3.2	
10-11	.0	.0	.3	.8	.0	.0	1.0	
12	.0	.0	.1	.3	.0	.0	.4	
13-16	.0	.0	.0	.3	.1	.0	.4	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
								777
TOT PCT	8.5	32.4	47.5	11.5	.1	.0	100.0	

PERIOD: (OVER-ALL) 1949-1973 TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	2.3	13.8	17.4	6.6	3.3	1.7	.3	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	708	3
6-7	.1	1.7	8.3	9.1	5.0	2.1	.6	.4	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	423	5
8-9	.1	.8	3.0	3.5	3.5	1.6	.4	.4	.2	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	211	6
10-11	.0	.6	.8	1.0	.9	1.2	.3	.3	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	81	6
12-13	.0	.0	.2	.2	.1	.1	.3	.2	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	18	8
>13	.0	.0	.0	.2	.2	.1	.1	.1	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	14	9
INDET	3.8	1.0	.3	.7	.2	.2	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	98	2
TOTAL	96	277	467	329	205	109	32	23	11	1	3	0	0	0	0	0	0	0	0	1553	4
PCT	6.2	17.8	30.1	21.2	13.2	7.0	2.1	1.5	.7	.1	.2	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

OCTOBER

PERIOD: (PRIMARY) 1936-1973
(OVER-ALL) 1857-1973

AREA 0034 POINT MUGU NW
34.6N 121.3W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA				
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG	DUST BLWG SNOW	NO SIG WEA
N	.3	.2	1.1	.0	.0	.0	.0	1.4	.1	.0	13.0	.4	5.8		.0	79.4
NE	.2	.0	.7	.0	.0	.0	.0	.7	.2	.0	24.8	.5	14.7		.7	58.4
E	1.5	.0	.9	.0	.0	.0	.0	1.5	.3	.0	27.4	.0	11.7		.9	58.3
SE	1.0	.6	1.8	.0	.0	.0	.0	3.4	1.7	.0	20.2	.0	9.9		.0	64.8
S	1.6	1.4	1.8	.0	.0	.0	.0	4.8	1.3	.0	20.9	.0	14.2		.0	58.8
SW	1.5	1.0	1.0	.0	.0	.0	.0	3.0	.6	.0	21.6	.0	17.4		.0	57.5
W	.5	.4	.4	.0	.0	.0	.0	1.3	.2	.0	17.7	.3	16.2		.2	64.1
NW	.1	.1	.4	.0	.0	.0	.0	.5	.2	.0	19.9	.2	7.7		*	75.4
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	.0
CALM	.4	.4	.4	.0	.0	.0	.0	1.1	.4	.0	44.3	.4	19.3		.0	34.6
TOT PCT	.4	.3	.7	.0	.0	.0	.0	1.3	.3	.0	19.0	.3	10.7		.1	68.3
TOT OBS:	4309															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA				
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG	DUST BLWG SNOW	NO SIG WEA
00&03	.6	.4	.7	.0	.0	.0	.0	1.5	.4	.0	13.6	.0	13.0		.1	71.3
06&09	.5	.2	.6	.0	.0	.0	.0	1.0	.0	.0	18.6	.2	7.6		.1	72.6
12&15	.4	.5	.9	.0	.0	.0	.0	1.7	.4	.0	23.6	.2	7.5		.0	66.8
18&21	.2	.2	.6	.0	.0	.0	.0	1.0	.3	.0	20.7	.6	13.6		.2	63.6
TOT PCT	.4	.3	.7	.0	.0	.0	.0	1.3	.3	.0	19.1	.3	10.7		.1	68.3
TOT OBS:	4364															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	1.8	7.5	8.0	2.3	.1	.0		19.7	12.7	16.8	16.0	25.1	19.8	24.0	22.0	18.1	16.1
NE	1.6	2.0	.8	.1	*	.0		4.6	8.8	1.7	2.7	4.7	7.1	7.5	9.8	3.6	1.7
E	1.3	1.7	.8	.1	.0	.0		3.9	6.9	1.0	2.4	5.2	5.0	4.9	9.0	5.0	2.4
SE	.7	2.0	1.1	.1	*	.0		4.0	8.4	3.6	2.7	3.1	4.5	3.5	4.9	5.2	3.9
S	1.0	2.5	1.1	.1	*	.0		4.7	8.1	5.1	4.3	4.5	3.5	3.9	3.3	6.0	6.1
SW	1.1	2.8	.6	*	*	.0		4.6	6.7	4.8	5.2	2.1	3.7	2.2	2.9	6.9	7.7
W	2.1	9.0	3.4	.4	*	.0		14.9	8.1	22.5	18.2	11.0	11.1	8.3	9.2	14.2	21.1
NW	2.6	14.8	15.0	4.1	.4	.0		36.9	12.7	41.6	41.8	38.1	36.2	36.3	30.9	32.3	38.1
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	6.7							6.7	.0	2.7	6.8	8.2	9.1	9.5	8.1	8.7	2.9
TOT OBS	911	2034	1408	343	32	0	4728		10.0	843	384	595	397	673	507	762	627
TOT PCT	19.0	42.9	30.7	7.2	.7	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	4.5	9.3	5.1	.7	*		19.7	12.7	16.5	23.0	23.1	17.2
NE	2.9	1.4	.3	*	.0		4.6	6.8	2.1	5.7	8.5	2.8
E	2.4	1.2	.4	.0	.0		3.9	6.9	1.5	3.9	6.7	3.8
SE	1.9	1.6	.4	*	.0		4.0	8.4	3.3	3.7	4.1	4.6
S	2.5	1.8	.4	.1	*		4.7	8.1	4.9	4.1	3.6	6.0
SW	2.6	1.8	.2	.0	*		4.6	6.7	5.0	2.8	2.5	7.3
W	7.0	7.0	.9	.1	.0		14.9	8.1	21.1	11.0	8.7	17.3
NW	8.3	18.5	8.8	1.3	*		36.9	12.7	41.7	37.3	34.0	34.9
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	6.7						6.7	.0	4.0	8.6	8.9	6.0
TOT OBS	1857	2037	781	110	3	4788		10.0	1227	992	1180	1389
TOT PCT	38.8	42.5	16.3	2.3	.1		100.0		100.0	100.0	100.0	100.0

OCTOBER

PERIOD: (PRIMARY) 1936-1973
(OVER-ALL) 1957-1973

AREA 0034 POINT HUGU NW
34.6N 121.3W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	4.0	9.7	43.2	31.7	9.9	1.5	.0	11.2	100.0	1227
06&09	8.6	12.0	37.6	31.6	10.0	.3	.0	10.5	100.0	992
12&15	8.9	14.0	39.5	32.4	5.1	.2	.0	9.3	100.0	1180
18&21	6.0	13.3	47.9	27.6	4.5	.6	.0	9.1	100.0	1389
TOT	323	588	2034	1468	343	32	0	10.0		4788
PCT	6.7	12.3	42.5	30.7	7.2	.7	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	9.2	1.7	3.4	4.4		3.5
NE	3.1	.2	.8	1.7		3.3
E	1.9	.3	.7	1.4		4.0
SE	1.5	.2	1.1	1.9		4.8
S	1.6	.4	1.2	1.9		4.9
SW	1.8	.3	.8	1.4		4.1
W	7.3	1.2	2.3	3.7		3.5
NW	16.2	3.4	5.9	9.1		3.7
VAR	.0	.0	.0	.0		.0
CALM	2.8	.3	.7	4.8		5.2
TOT OBS	1312	228	484	863	2887	3.9
TOT PCT	45.4	7.9	16.8	29.9	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.9	.2	.6	1.3	2.4	1.2	.4	.0	.0	.2	11.5	
NE	.4	*	.1	.5	.7	.3	*	.0	*	.1	3.6	
E	.5	*	.1	.5	.4	.4	.0	.0	*	.1	2.5	
SE	.3	.0	.1	.4	.6	.5	.1	.0	*	.0	2.4	
S	.4	.0	*	.6	.8	.4	*	.0	.1	*	2.7	
SW	.2	.0	.1	.6	.5	.2	.1	..	.1	*	2.3	
W	.6	.0	.3	1.2	1.9	.8	.2	*	.1	.1	9.2	
NW	2.0	.2	1.2	2.4	4.5	1.6	.5	.1	*	.2	21.7	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	1.7	.1	.6	1.0	1.3	.5	.1	.0	.0	.1	3.3	
TOT OBS	197	15	92	247	379	171	43	5	9	21	1708	2887
TOT PCT	6.8	.5	3.2	8.6	13.1	5.9	1.5	.2	.3	.7	59.2	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM) * OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >50YD	* OR >0
* OR >6500	.4	1.0	1.0	1.0	1.0	1.0	1.0	1.0
* OR >5000	.6	1.1	1.2	1.2	1.2	1.2	1.2	1.2
* OR >3500	1.3	2.4	2.7	2.7	2.7	2.7	2.7	2.7
* OR >2000	3.8	7.3	8.6	8.7	8.7	8.7	8.7	8.7
* OR >1000	9.1	16.8	20.7	21.5	21.8	21.8	21.8	21.8
* OR >600	11.5	21.7	27.1	29.4	30.4	30.4	30.5	30.5
* OR >300	12.0	23.2	29.1	32.0	33.4	33.5	33.6	33.6
* OR >150	12.1	23.4	29.5	32.5	33.9	34.0	34.1	34.1
* OR > 0	12.1	23.8	30.3	33.9	36.6	37.7	40.5	40.8
TOTAL	352	690	877	983	1062	1093	1173	1184

TOTAL NUMBER OF OBS: 2899 PCT FREQ NH <5/8: 59.2

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
37.0	6.9	7.9	4.3	2.9	3.0	5.0	5.6	21.3	6.1	2982

OCTOBER

PERIOD: (PRIMARY) 1936-1973
(OVER-ALL) 1857-1973

AREA 0034 POINT MUGU NW
34.6N 121.3W

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	PCP	.0	.0	.0	.0	.0	.0	*	*	.0	*	*	
<1/2	NO PCP	.7	.3	.4	.2	.2	.2	.5	1.5	.0	.9	4.9	
	TOT %	.7	.3	.4	.2	.2	.2	.5	1.5	.0	.9	4.9	
	PCP	.0	.0	.0	*	*	*	.0	.0	.0	.0	*	
1/2<1	NO PCP	.7	.2	.2	.1	.2	.1	.3	1.1	.0	.6	3.6	
	TOT %	.7	.2	.2	.2	.2	.2	.3	1.1	.0	.6	3.7	
	PCP	*	.0	*	*	.0	*	*	*	.0	.0	.1	
1<2	NO PCP	.4	.4	.2	.2	.2	.3	.8	.8	.0	.7	4.0	
	TOT %	.4	.4	.2	.2	.2	.3	.8	.9	.0	.7	4.2	
	PCP	*	*	.0	.1	.1	*	.1	.1	.0	*	.4	
2<5	NO PCP	.9	.8	.4	.5	.5	.5	2.0	2.5	.0	1.6	9.7	
	TOT %	1.0	.9	.4	.5	.6	.6	2.0	2.6	.0	1.6	10.0	
	PCP	.1	*	*	*	.1	*	.1	.1	.0	.0	.5	
5<10	NO PCP	5.9	1.5	1.6	1.5	1.8	1.8	5.5	11.3	.0	1.4	32.3	
	TOT %	6.0	1.6	1.6	1.6	1.9	1.9	5.5	11.3	.0	1.4	32.8	
	PCP	.1	.0	*	*	*	.0	*	*	.0	*	.2	
10+	NO PCP	11.2	1.7	1.1	1.4	1.7	1.5	5.6	18.8	.0	1.3	44.3	
	TOT %	11.3	1.7	1.2	1.4	1.7	1.5	5.6	18.8	.0	1.3	44.5	
	TOT OBS												4300
	TOT PCT	20.1	4.8	4.0	4.1	4.8	4.6	14.8	36.2	.0	6.5	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	0-3	.2	.2	.2	.1	.1	.1	.1	.3	.0	.8	2.1	
<1/2	4-10	.3	.1	.1	.1	*	.1	.4	.8	.0		1.9	
	11-21	.1	*	.1	.1	.1	*	.1	.4	.0		.8	
	22+	*	.0	*	.0	.0	.0	.0	.1	.0		.2	
	TOT %	.7	.3	.4	.2	.2	.2	.5	1.6	.0	.8	5.0	
	0-3	.1	.2	.1	*	.1	.1	.1	.1	.0	.6	1.4	
1/2<1	4-10	.3	*	.1	.1	.1	*	.1	.5	.0		1.1	
	11-21	.3	*	*	*	.0	.0	.1	.4	.0		.8	
	22+	.1	.0	*	*	*	.0	.0	.1	.0		.2	
	TOT %	.7	.2	.2	.1	.2	.1	.3	1.0	.0	.6	3.5	
	0-3	.1	.3	.2	.1	.1	.1	.3	.1	.0	.7	1.9	
1<2	4-10	.2	*	*	.1	.1	.2	.4	.5	.0		1.6	
	11-21	.1	*	*	*	*	*	.1	.3	.0		.6	
	22+	*	.0	.0	.0	.0	.0	*	.1	.0		.1	
	TOT %	.4	.3	.2	.2	.2	.3	.8	1.0	.0	.7	4.2	
	0-3	.3	.5	.3	.2	.2	.3	.4	.5	.0	1.6	4.1	
2<5	4-10	.5	.3	.2	.2	.3	.3	1.5	1.4	.0		4.6	
	11-21	.3	*	.0	.1	.1	*	.2	.7	.0		1.4	
	22+	*	*	.0	*	*	.0	*	.2	.0		.3	
	TOT %	1.0	.8	.5	.5	.6	.6	2.1	2.7	.0	1.6	10.4	
	0-3	.6	.5	.4	.1	.2	.4	.8	.6	.0	1.4	5.1	
5<10	4-10	2.7	.7	.8	.6	1.0	1.1	3.3	4.4	.0		14.6	
	11-21	2.1	.2	.4	.7	.3	.3	1.1	5.3	.0		10.6	
	22+	.4	*	*	.1	.1	*	.2	1.0	.0		1.8	
	TOT %	5.8	1.5	1.6	1.5	1.8	1.8	5.4	11.3	.0	1.4	32.1	
	0-3	.6	.1	.2	.2	.2	.2	.4	.7	.0	1.6	4.1	
10+	4-10	3.5	1.0	.6	.9	.9	1.1	3.3	7.2	.0		18.6	
	11-21	5.1	.6	.3	.2	.4	.2	1.8	8.0	.0		16.6	
	22+	1.9	.1	*	*	*	*	.2	3.2	.0		5.5	
	TOT %	11.1	1.7	1.2	1.3	1.6	1.5	5.7	19.1	.0	1.6	44.8	
	TOT OBS												4605
	TOT PCT	19.7	4.7	4.0	4.0	4.7	4.5	14.9	36.7	.0	6.7	100.0	

OCTOBER

PERIOD: (PRIMARY) 1936-1973
(OVER-ALL) 1857-1973

AREA 0034 POINT MUGU NW
34.0N 12'.3W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET,NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00&03	4.6	.5	2.4	8.8	13.2	4.2	1.4	.2	.1	.7	36.1	63.9	806
06&09	6.6	.6	3.2	5.7	12.4	6.0	1.3	.1	.4	.4	37.0	63.0	679
12&15	11.6	.6	3.6	9.3	10.4	8.3	.9	.3	.5	.8	46.2	53.8	636
18&21	5.1	.4	3.4	9.9	15.2	5.7	2.1	.1	.2	.8	42.9	57.1	828
TOT	198	15	92	251	382	175	43	5	9	21	1191	1758	2949
PCT	6.7	.5	3.1	8.5	13.0	5.9	1.5	.2	.3	.7	40.4	59.6	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00&03	2.3	3.2	3.6	9.4	37.2	44.4	1200
06&09	5.4	3.0	3.9	9.7	30.9	47.1	985
12&15	9.2	4.2	4.5	9.4	28.4	44.3	1143
18&21	3.7	3.5	5.1	12.5	32.0	43.1	1333
TOT	234	163	200	484	1502	2078	4661
PCT	5.0	3.5	4.3	10.4	32.2	44.6	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET,NH >4/8), BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	4.6	8.7	27.6	16.6	55.9	791
06&09	6.6	11.8	28.6	16.5	54.9	667
12&15	11.8	18.5	36.7	16.5	46.8	626
18&21	5.2	10.7	33.1	17.4	49.4	815
TOT	196	351	909	486	1504	2899
PCT	6.8	12.1	31.4	16.8	51.9	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
80/84	.2	.0	.0	.0	*	.0	.0	.0	6	.2
75/79	.1	*	.1	.3	*	*	.0	.0	18	.7
70/74	.1	.1	.2	.2	.6	.7	.6	.1	75	2.7
65/69	.1	*	.1	.5	1.4	4.7	6.6	3.1	461	16.7
60/64	.0	.2	*	.3	2.8	10.3	22.4	13.1	1359	49.2
55/59	.0	.0	*	.2	.4	2.3	11.2	13.1	751	27.2
50/54	.0	*	.2	.1	.2	.4	.7	1.6	86	3.1
45/49	.0	.0	.0	*	*	*	*	.1	6	.2
TOTAL	17	11	18	44	159	510	1147	856	2762	100.0
PCT	.6	.4	.7	1.6	5.8	18.5	41.5	31.0		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
*	*	.1	.0	.0	.0	*	.0	.0	*
.1	.1	.1	*	*	*	.1	.1	.0	*
.3	.1	.1	.3	.4	.2	.6	.6	.0	.3
2.3	.6	.7	.9	1.6	1.3	4.0	4.5	.0	.7
9.8	1.7	1.9	2.7	2.6	1.9	7.3	19.4	.0	2.0
6.4	1.5	1.0	.6	.3	.6	2.4	11.8	.0	3.5
.6	.8	.3	*	*	*	.1	.7	.0	.5
*	.1	*	.0	*	*	.0	*	.0	.0
19.6	4.8	4.2	4.6	5.0	4.1	14.5	37.2	.0	6.0

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00&03	81	73	69	62	57	54	49	62.5	1229
06&09	82	68	65	60	55	52	50	60.2	997
12&15	81	71	65	60	53	51	48	59.5	1192
18&21	83	75	70	63	57	54	46	62.8	1389
TOT	83	73	68	61	55	52	46	61.4	4807

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00&03	.3	2.2	7.6	19.7	43.7	26.6	83	788
06&09	.5	1.9	2.9	12.1	40.6	42.0	86	593
12&15	.9	2.7	3.3	12.6	39.7	40.8	86	665
18&21	.8	3.6	8.4	27.4	40.7	19.0	81	751
TOT	17	73	162	517	1135	873	84	2797

OCTOBER

PERIOD: (PRIMARY) 1936-1973
(OVER-ALL) 1857-1973

AREA 0034 POINT HUGU NW
34.6N 121.3W

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	49 52	53 56	57 60	61 64	65 68	69 72	73 76	77 80	81 84	TOT	W FOG	WO FOG
17/19	.0	.0	.0	.0	.0	.0	.1	*	.1	5	.0	.2
14/16	.0	.0	.0	.0	.1	.1	.1	.1	.0	10	*	.3
11/13	.0	.0	.0	.1	.2	.2	.3	.1	.0	25	.0	.8
9/10	.0	.0	.0	.1	.2	.3	.2	.0	.0	24	.1	.7
7/8	.0	.0	.1	.3	.7	.5	.1	.0	.0	57	.1	1.6
6	.0	.0	.1	.3	.7	.2	.0	.0	.0	45	.2	1.2
5	.0	.0	.2	1.1	1.0	.5	*	.0	.0	88	.2	2.5
4	.0	*	.7	2.4	1.9	.2	.0	.0	.0	170	.6	4.6
3	.0	.1	.8	1.6	1.4	.2	*	.0	.0	133	.4	3.7
2	.0	.1	2.1	5.4	2.2	.2	.0	.0	.0	322	.9	9.0
1	.0	.1	2.6	4.5	1.8	*	.0	.0	.0	289	.9	8.0
0	.0	.6	5.3	8.1	1.8	.2	*	.0	.0	519	2.1	14.0
-1	.0	.9	4.5	4.9	.8	.1	.0	.0	.0	361	1.4	9.8
-2	.1	1.2	5.5	4.6	.6	*	.0	.0	.0	390	2.2	9.9
-3	.0	.6	3.5	3.7	.3	.0	.0	.0	.0	263	1.0	7.1
-4	.1	1.1	3.5	1.7	.1	.0	.0	.0	.0	212	1.3	5.3
-5	*	.8	2.3	1.5	.1	.0	.0	.0	.0	152	.8	3.9
-6	*	.5	1.3	.7	.1	.0	.0	.0	.0	82	.3	2.2
-7/-8	.0	.6	1.2	.4	.0	.0	.0	.0	.0	73	.4	1.9
-9/-10	.0	.2	.1	*	*	.0	.0	.0	.0	12	.1	.3
-11/-13	.0	*	.0	.0	.0	.0	.0	.0	.0	1	*	.0
-14/-16	.0	.1	.0	.0	.0	.0	.0	.0	.0	3	.0	.1
TOTAL	9	221	1091	1342	452	89	25	5	2	3236	421	2815
PCT	.3	6.8	33.7	41.5	14.0	2.8	.8	.2	.1	100.0	13.0	87.0

PERIOD: (OVER-ALL) 1963-1973

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.7	1.8	.0	.0	.0	.0	2.6
1-2	.2	5.5	2.7	.0	.0	.0	8.4
3-4	.0	2.1	4.8	.8	.0	.0	7.1
5-6	.0	.5	3.2	.8	.1	.0	4.6
7	.0	.2	1.1	.6	.0	.0	2.0
8-9	.0	.0	.6	.3	.0	.0	.9
10-11	.0	.0	.1	.3	.1	.0	.5
12	.0	.0	.1	.0	.0	.0	.1
13-16	.0	.0	.1	.1	.1	.0	.3
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.0	10.1	12.2	2.9	.3	.0	26.5

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.7	.0	.0	.0	.0	.7
1-2	.1	.6	.5	.0	.0	.0	1.3
3-4	.0	.5	.3	.0	.0	.0	.9
5-6	.0	.0	.3	.0	.0	.0	.3
7	.0	.0	.2	.1	.0	.0	.3
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.1	1.8	1.4	.1	.0	.0	3.5

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.4	.7	.0	.0	.0	.0	1.2
1-2	.0	.3	.2	.0	.0	.0	.5
3-4	.0	.1	.4	.0	.0	.0	.5
5-6	.0	.0	.1	.0	.0	.0	.1
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.4	1.2	.7	.0	.0	.0	2.3

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.3	.0	.0	.0	.0	.7
1-2	.0	.5	1.8	.0	.0	.0	2.4
3-4	.0	.5	.2	.0	.0	.0	.7
5-6	.0	.0	.3	.1	.0	.0	.4
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.1	1.5	2.3	.1	.0	.0	4.1

PERIOD: (OVER-ALL) 1963-1979

OCTOBER

TABLE 18 (CONT)

AREA 0034 POINT HUGU NW
34.6N 121.3W

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

S

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.7	.0	.0	.0	.0	.9
1-2	.0	.9	1.0	.0	.0	.0	1.8
3-4	.0	.1	.4	.2	.0	.0	.7
5-6	.0	.1	.2	.0	.0	.0	.3
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.1	1.8	1.5	.2	.0	.0	3.7

SW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.8	.0	.0	.0	.0	1.0
1-2	.1	1.0	.1	.0	.0	.0	1.3
3-4	*	.4	.0	*	.0	.0	.4
5-6	.0	.2	.0	.0	.0	.0	.2
7	.0	.2	.0	.0	.0	.0	.2
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	*	.0	.0	.0	*
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	2.7	.2	*	.0	.0	3.2

W

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	2.0	.2	.0	.0	.0	2.3
1-2	.3	2.3	1.1	.0	.0	.0	3.7
3-4	.2	1.6	1.2	.0	.0	.0	2.9
5-6	.0	.1	.7	.0	.0	.0	.8
7	.0	.0	.2	.1	.0	.0	.3
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.1	.0	.0	.0	.0	.1
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.1	.0	.0	.0	.1
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.6	6.0	3.5	.1	.0	.0	10.2

NW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.3	3.2	.6	.0	.0	.0	4.1	
1-2	.3	6.7	5.0	.0	.0	.0	11.9	
3-4	.4	4.7	8.7	1.0	.0	.0	14.8	
5-6	.0	.6	4.4	1.2	*	.0	6.2	
7	.0	.1	1.8	1.2	.4	.0	3.5	
8-9	.0	.0	.5	.7	.1	.0	1.3	
10-11	.0	*	.2	.2	.0	.0	.4	
12	.0	.0	*	.1	.2	.0	.4	
13-16	.0	.0	*	.1	*	.0	.2	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.9	15.3	21.3	4.5	.8	.0	42.8	96.2

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	5.8	10.5	.8	.0	.0	.0	17.1	
1-2	1.3	17.7	12.4	.0	.0	.0	31.4	
3-4	.7	9.9	15.4	2.0	.0	.0	28.0	
5-6	.0	1.5	9.1	2.1	.1	.0	12.9	
7	.0	.6	3.3	2.0	.4	.0	6.3	
8-9	.0	.0	1.1	1.0	.1	.0	2.1	
10-11	.0	.1	.4	.5	.1	.0	1.1	
12	.0	.0	.1	.1	.2	.0	.5	
13-16	.0	.0	.2	.2	.1	.0	.6	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	7.8	40.3	42.9	8.0	1.1	.0	100.0	842

PERIOD: (OVER-ALL) 1949-1973

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	4.3	14.4	15.6	6.9	1.5	.9	.3	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	772	3
6-7	.1	2.5	6.0	7.1	4.6	2.5	1.0	.6	.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	432	5
8-9	.0	1.4	3.3	2.5	4.0	2.2	.8	.4	.5	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	264	6
10-11	.0	.4	.7	1.0	.9	1.1	.7	.5	.3	.1	.1	.1	.1	.0	.0	.0	.0	.0	.0	107	8
12-13	.0	.0	.3	.5	.6	.5	.7	.3	.0	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	57	8
>13	.0	.0	.0	.1	.1	.1	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	8	9
INDET	3.4	1.6	.5	.3	.1	.0	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	105	1
TOTAL	136	355	461	321	204	127	65	41	22	8	3	1	1	0	0	0	0	0	0	1745	4
PCT	7.8	20.3	26.4	18.4	11.7	7.3	3.7	2.3	1.3	.5	.2	.1	.1	.0	.0	.0	.0	.0	.0	100.0	

NOVEMBER

PERIOD: (PRIMARY) 1936-1973
(OVER-ALL) 1854-1973

AREA 0034 POINT MUGU NW
34.7N 121.3W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG	DUST BLWG SNOW	NO SIG WEA
N	.5	.1	.7	.0	.0	.0	.0	1.3	.4	.2	8.1	.0	4.3	.1		85.6
NE	1.6	.0	2.3	.0	.0	.0	.3	4.2	.7	.0	12.3	.3	8.4	.2		73.9
E	4.5	1.8	1.0	.0	.0	.0	.0	7.3	1.4	.0	14.8	.0	6.4	.8		69.3
SE	5.8	2.3	3.4	.0	.0	.0	.0	11.0	4.4	.0	9.8	.6	7.8	.0		66.4
S	6.3	1.2	3.3	.0	.0	.0	.0	10.9	7.3	.0	10.5	.5	6.3	.0		64.5
SW	3.0	.3	2.9	.0	.0	.0	.0	6.2	2.3	.0	11.3	.6	5.8	.0		73.8
W	.3	1.2	1.1	.0	.0	.0	.0	2.6	1.0	.2	7.3	.2	9.6	.0		79.3
NW	.4	.5	.6	.0	.0	.0	.0	1.5	.5	.2	8.8	.1	4.5	.0		84.4
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0
CALM	.4	.0	.0	.0	.0	.0	.0	.4	.8	.4	25.6	.4	13.6	.0		58.9
TOT PCT	1.4	.6	1.2	.0	.0	.0	*	3.1	1.2	.2	10.4	.2	6.3	.1		78.6
TOT OBS:	3995															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG	DUST BLWG SNOW	NO SIG WEA
00&03	1.7	.5	1.1	.0	.0	.0	.0	3.2	1.1	.3	8.6	.2	7.1	.1		79.5
06&09	1.1	.4	1.2	.0	.0	.0	.0	2.6	1.4	.2	12.2	.2	5.5	.0		77.9
12&15	1.7	.9	1.5	.0	.0	.0	.1	4.2	1.8	.1	12.2	.3	4.4	.0		77.3
18&21	1.0	.8	.9	.0	.0	.0	.0	2.7	1.0	.0	9.1	.0	7.7	.2		79.3
TOT PCT	1.4	.6	1.2	.0	.0	.0	*	3.2	1.2	.1	10.4	.2	6.3	.1		78.6
TOT OBS:	4045															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	1.9	8.6	8.3	2.9	.2	.0		21.9	12.7	18.3	21.5	22.8	25.4	22.6	23.7	21.6	21.2
NE	2.0	3.5	1.7	.3	*	.0		7.5	8.2	3.4	5.4	7.6	8.3	11.7	12.5	9.2	3.7
E	1.5	2.3	.7	.2	*	.0		4.7	6.9	2.2	2.2	3.9	6.6	5.3	8.8	6.7	3.3
SE	.9	2.2	1.0	.4	.1	.0		4.6	10.6	4.2	2.6	4.5	3.1	4.9	5.0	6.0	5.2
S	.9	2.2	1.6	.3	.0	.0		5.0	9.9	5.2	3.7	5.9	3.0	5.1	3.6	5.4	6.4
SW	.5	2.8	1.1	.1	.0	.0		4.6	8.8	5.1	3.1	4.8	4.1	4.4	3.2	4.3	6.3
W	1.5	6.4	3.4	.4	.0	.0		11.6	9.1	17.3	11.7	8.9	10.2	8.9	8.7	10.2	14.1
NW	2.1	13.1	13.9	3.7	.3	.0		32.9	12.7	39.8	40.4	34.8	33.5	28.5	25.9	26.5	34.4
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	7.1							7.1	.0	4.6	9.5	6.8	5.7	8.6	6.7	10.0	5.6
TOT OBS	817	1825	1411	365	29	0	4447		10.3	805	349	557	350	629	436	710	611
TOT PCT	18.4	41.0	31.7	8.2	.7	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	5.4	10.3	5.3	1.0	.0		21.9	12.7	19.3	23.8	23.9	21.4
NE	4.0	2.7	.7	.1	.0		7.5	8.2	4.0	7.9	12.0	6.6
E	3.0	1.4	.4	*	.0		4.7	6.9	2.2	4.9	6.7	5.1
SE	1.9	1.8	.6	.3	*		4.6	10.6	3.7	4.0	4.9	5.6
S	2.0	2.0	.9	.1	.0		5.0	9.9	4.7	4.8	4.5	5.9
SW	2.0	2.1	.5	.0	.0		4.6	8.8	4.5	4.5	3.9	5.2
W	4.7	5.7	1.2	.1	.0		11.6	9.1	15.6	9.4	8.8	12.0
NW	7.1	16.6	7.8	1.3	.1		32.9	12.7	40.0	34.3	27.4	30.2
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	7.1						7.1	.0	6.1	6.4	7.8	7.9
TOT OBS	1650	1891	775	127	4	4447		10.3	1154	907	1065	1321
TOT PCT	37.1	42.5	17.4	2.9	.1		100.0		100.0	100.0	100.0	100.0

NOVEMBER

PERIOD: (PRIMARY) 1936-1973
(OVER-ALL) 1854-1973

AREA 0034 POINT MUGU NW
34.7N 121.3W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	6.1	8.2	38.2	37.2	9.5	.8	.0	11.5	100.0	1154
06&09	6.4	12.3	39.3	32.9	8.5	.6	.0	10.5	100.0	907
12&15	7.8	13.1	43.3	27.8	7.6	.4	.0	9.7	100.0	1065
18&21	7.9	11.7	42.9	29.4	7.3	.8	.0	9.8	100.0	1321
TOT	316	501	1825	1411	365	29	0	10.3		4447
PCT	7.1	11.3	41.0	31.7	8.2	.7	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	11.4	3.1	3.3	3.4		3.0
NE	5.9	.7	1.2	1.7		2.6
E	2.7	.4	.8	1.5		3.6
SE	1.0	.5	.7	2.0		5.3
S	1.1	.4	1.8	2.2		5.6
SW	1.3	.6	.9	1.2		4.6
W	5.7	1.2	2.7	2.0		3.4
NW	15.8	3.7	6.2	4.8		3.2
VAR	.0	.0	.0	.0		.0
CALM	4.3	.6	1.2	1.9		3.2
TOT OBS	1282	292	492	543	2609	3.4
TOT PCT	49.1	11.2	18.9	20.8	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.5	*	.3	1.0	2.1	1.0	.2	.1	.0	.3	15.7	
NE	.2	.1	.1	.6	.8	.4	*	*	.0	.1	7.1	
E	.2	.0	.1	.3	.5	.3	.2	.0	.1	.2	3.6	
SE	.2	.0	.1	.3	.8	.4	.1	.1	*	.1	2.1	
S	.4	*	.3	.4	.9	.9	.2	.0	.1	.1	2.2	
SW	.2	*	.2	.3	.5	.5	*	*	.0	*	2.2	
W	.3	*	.1	.5	1.1	.7	.2	.1	.0	.1	8.3	
NW	1.3	.0	.7	1.5	2.3	1.7	.4	.1	.2	.5	22.0	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.9	.0	*	.3	.5	.2	*	.0	.1	.3	5.6	
TOT OBS	108	6	52	141	247	159	33	13	12	43	1795	2609
TOT PCT	4.1	.2	2.0	5.4	9.5	6.1	1.3	.5	.5	1.6	68.8	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM) * OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >50YD	* OR >0
* OR >6500	.9	1.5	1.9	2.0	2.0	2.1	2.1	2.1
* OR >5000	1.2	1.9	2.4	2.5	2.5	2.5	2.6	2.6
* OR >3500	2.0	3.1	3.7	3.8	3.8	3.8	3.9	3.9
* OR >2000	5.3	8.2	9.6	9.7	9.8	9.8	9.9	9.9
* OR >1000	10.2	16.2	18.6	19.0	19.2	19.2	19.4	19.4
* OR >600	12.9	20.5	23.6	24.3	24.6	24.7	24.8	24.8
* OR >300	13.6	21.9	25.2	26.1	26.5	26.6	26.7	26.7
* OR >150	13.6	22.0	25.4	26.3	26.7	26.8	27.0	27.0
* OR > 0	13.9	22.4	26.0	27.0	28.0	28.7	30.4	31.0
TOTAL	365	589	684	710	737	756	799	816

TOTAL NUMBER OF OBS: 2630

PCT FREQ NH <5/8: 69.0

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
40.9	8.6	9.2	5.5	4.2	3.4	5.8	5.2	13.7	3.4	2724

NOVEMBER

PERIOD: (PRIMARY) 1936-1973
(OVER-ALL) 1854-1973

AREA 0034 POINT HUGU NW
34.7N 121.3W

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	PCP	*	.0	.0	.0	*	.0	.0	*	.0	.0	.1	
<1/2	NO PCP	.7	.2	.2	.1	.1	.2	.2	.9	.0	.7	3.4	
	TOT %	.7	.2	.2	.1	.2	.2	.2	.9	.0	.7	3.5	
	PCP	.0	*	*	.1	.1	*	.0	.0	.0	.0	.2	
1/2<1	NO PCP	.4	.1	.1	*	.2	.1	.1	.6	.0	.1	1.6	
	TOT %	.4	.1	.1	.1	.2	.1	.1	.6	.0	.1	1.8	
	PCP	*	*	*	.1	.1	*	.0	*	.0	*	.3	
1<2	NO PCP	.3	.2	.1	.2	.1	*	.2	.4	.0	.4	1.9	
	TOT %	.3	.3	.2	.2	.1	.1	.2	.4	.0	.4	2.2	
	PCP	.1	.1	.2	.1	.1	*	.1	.1	.0	.0	.8	
2<5	NO PCP	.7	.8	.5	.3	.4	.3	.8	1.3	.0	.8	6.0	
	TOT %	.7	.9	.7	.4	.5	.4	.9	1.4	.0	.8	6.7	
	PCP	.1	.1	.1	.2	.2	.1	.2	.2	.0	.0	1.2	
5<10	NO PCP	5.6	2.5	1.5	1.2	1.2	1.2	3.4	8.3	.0	1.4	26.1	
	TOT %	5.7	2.6	1.6	1.4	1.4	1.3	3.5	8.5	.0	1.4	27.3	
	PCP	.1	.1	*	.1	.1	.1	.1	.1	.0	.0	.6	
10+	NO PCP	14.3	3.9	2.2	2.0	2.6	2.4	6.8	20.7	.0	3.1	58.0	
	TOT %	14.4	4.0	2.2	2.1	2.7	2.5	6.8	20.9	.0	3.1	58.6	
	TOT OBS												3991
	TOT PCT	22.3	8.0	4.9	4.4	5.1	4.5	11.8	32.6	.0	6.4	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	0-3	.1	.1	.2	.1	*	*	.1	.1	.0	.7	1.5	
<1/2	4-10	.3	.1	*	*	*	.2	.1	.4	.0		1.2	
	11-21	.3	*	*	.0	*	.0	*	.3	.0		.7	
	22+	*	.0	.0	.0	.0	.0	.0	*	.0		*	
	TOT %	.7	.2	.2	.1	.1	.2	.2	.9	.0	.7	3.5	
	0-3	*	.1	*	*	.1	*	.1	.1	.0	.1	.5	
1/2<1	4-10	.2	*	*	*	*	.0	*	.2	.0		.6	
	11-21	.2	.0	*	*	.1	*	*	.2	.0		.6	
	22+	.0	.0	*	.0	.0	.0	*	.1	.0		.1	
	TOT %	.4	.1	.1	.1	.2	.1	.1	.6	.0	.1	1.8	
	0-3	.1	.1	.1	.1	.1	.0	*	.1	.0	.4	.8	
1<2	4-10	.1	.1	.1	.1	.1	*	.1	.3	.0		.9	
	11-21	.2	*	*	*	*	*	*	.2	.0		.6	
	22+	*	*	*	*	*	.0	*	*	.0		.1	
	TOT %	.4	.2	.2	.2	.2	.1	.2	.6	.0	.4	2.4	
	0-3	.2	.5	.3	.1	.1	.1	.2	.3	.0	.8	2.5	
2<5	4-10	.4	.3	.3	.2	.2	.3	.6	.9	.0		3.2	
	11-21	.3	.1	.1	.1	.1	.1	.1	.4	.0		1.2	
	22+	.1	*	*	.1	.1	*	*	.1	.0		.4	
	TOT %	.9	.9	.7	.5	.5	.5	.9	1.7	.0	.8	7.4	
	0-3	.6	.7	.5	.2	.2	.1	.5	.7	.0	1.4	5.0	
5<10	4-10	2.1	1.1	.7	.6	.7	.7	1.7	3.3	.0		11.0	
	11-21	2.1	.5	.3	.4	.3	.3	.9	3.3	.0		8.1	
	22+	.7	.1	*	.2	.1	*	.1	.9	.0		2.2	
	TOT %	5.5	2.5	1.5	1.4	1.3	1.2	3.3	8.2	.0	1.4	26.3	
	0-3	1.0	.7	.6	.4	.3	.2	.6	.7	.0	3.6	8.0	
10+	4-10	5.5	1.9	1.2	1.2	1.2	1.5	3.9	7.9	.0		24.2	
	11-21	5.5	1.1	.3	.5	1.1	.6	2.3	9.3	.0		20.7	
	22+	2.3	.2	.1	.2	.1	.1	.1	2.7	.0		5.7	
	TOT %	14.2	3.9	2.2	2.2	2.7	2.5	6.8	20.6	.0	3.6	58.7	
	TOT OBS												4249
	TOT PCT	22.1	7.8	4.8	4.5	5.0	4.5	11.6	32.6	.0	7.0	100.0	

NOVEMBER

PERIOD: (PRIMARY) 1936-1973
(OVER-ALL) 1854-1973

AREA 0034 POINT HUGU NW
34.7N 121.3W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET,NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00&03	3.9	.1	1.7	5.4	7.8	4.2	.8	.8	.6	2.1	27.5	72.5	716
06&09	5.4	.2	1.6	5.5	7.3	4.7	1.1	.3	.2	1.1	27.5	72.5	914
12&15	4.7	.3	2.2	4.3	12.0	7.3	1.8	.2	.0	1.2	34.1	65.9	599
18&21	2.5	.3	2.3	5.8	9.9	7.7	1.2	.5	.9	2.0	33.2	66.8	754
TOT	108	6	52	143	248	161	33	13	12	44	820	1863	2683
PCT	4.0	.2	1.9	5.3	9.2	6.0	1.2	.5	.4	1.6	30.6	69.4	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00&03	2.8	2.0	2.0	7.5	25.8	60.1	1124
06&09	4.0	1.0	2.8	7.7	26.7	57.8	896
12&15	4.4	1.8	2.6	7.6	27.0	56.5	1028
18&21	3.0	2.1	2.2	6.6	26.0	60.0	1253
TOT	150	76	102	314	1133	2526	4301
PCT	3.5	1.8	2.4	7.3	26.3	58.7	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET,NH >4/8),BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	3.9	6.6	20.6	13.7	65.8	695
06&09	5.5	7.7	21.2	12.5	66.2	598
12&15	4.7	8.6	20.2	18.3	61.5	590
18&21	2.5	6.8	18.6	19.7	61.7	747
TOT	107	194	528	425	1677	2630
PCT	4.1	7.4	20.1	16.2	63.8	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
80/84	.1	.0	.0	.0	.0	.0	.0	.0	3	.1
75/79	*	*	*	.2	*	*	.0	.0	10	.4
70/74	.2	.1	.1	.2	.2	.4	.1	.0	31	1.2
65/69	.1	.3	.2	.7	1.2	2.2	2.1	.8	197	7.7
60/64	*	.3	.3	1.3	4.2	9.9	14.6	6.9	960	37.6
55/59	*	.1	.2	1.0	4.2	10.8	17.3	12.0	1165	45.6
50/54	.0	*	*	.2	.8	1.0	2.0	2.2	158	6.1
45/49	.0	*	.0	.1	*	.1	.4	.3	22	.9
40/44	.0	.0	.0	*	*	.1	.1	.1	9	.4
TOTAL	15	24	23	94	269	626	934	568	2553	100.0
PCT	.6	.9	.9	3.7	10.5	24.5	36.6	22.2		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.1	*	.0	.0	.0	.0	.0	.0	.0
*	.1	*	.1	*	.0	.0	.0	.0	.1
.2	.2	.2	.1	.1	.1	.1	.2	.0	*
1.3	.6	.5	.4	.4	.7	1.0	2.2	.0	.5
6.4	2.2	1.6	2.0	3.4	2.4	5.9	11.7	.0	2.1
1..4	3.0	1.7	1.8	1.3	1.7	4.6	17.7	.0	4.6
1.4	1.0	.4	.3	.2	.2	.4	1.9	.0	.4
.2	.4	.2	.0	.0	.0	.0	.0	.0	.1
*	.3	*	.0	.0	.0	.0	.0	.0	.0
20.9	7.8	4.5	4.6	5.4	5.2	12.1	33.7	.0	5.9

TABLE 15

MEANS,EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00&03	82	72	67	60	55	53	50	60.3	1165
06&09	74	68	64	58	52	47	44	57.8	918
12&15	74	66	63	57	51	43	40	57.4	1073
18&21	84	75	67	60	55	52	48	60.7	1322
TOT	84	71	66	59	53	48	40	59.2	4478

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00&03	.0	3.9	11.2	28.7	38.1	18.2	80	743
06&09	.6	3.3	7.0	18.5	40.0	30.6	83	545
12&15	.5	5.0	7.2	23.2	35.1	29.0	82	599
18&21	1.3	9.3	15.4	25.5	34.0	14.5	77	702
TOT	15	142	272	692	950	578	80	2589

NOVEMBER

PERIOD: (PRIMARY) 1936-1973
(OVER-ALL) 1854-1973

AREA 0034 POINT HUGU NW
34.7N 121.3W

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	45 48	49 52	53 56	57 60	61 64	65 68	69 72	73 76	77 80	TOT	W FOG	WO FOG
20/22	.0	.0	.0	.0	.0	.0	.0	*	*	2	.0	.1
17/19	.0	.0	.0	.0	.0	.0	.0	*	.0	1	.0	*
14/16	.0	.0	.0	.0	.0	*	.1	.1	.0	7	*	.2
11/13	.0	.0	.0	.1	.1	.2	.1	.1	.0	16	.0	.5
9/10	.0	.0	.0	.1	.3	.4	.1	*	.0	28	.1	.8
7/8	.0	.0	.0	.2	.9	.6	.2	.0	.0	59	.1	1.8
6	.0	.0	*	.2	.5	.6	.1	.0	.0	46	.1	1.4
5	.0	*	.1	.7	1.2	.7	.1	.0	.0	89	.3	2.6
4	.0	*	.3	1.2	2.8	1.0	.1	.0	.0	168	.3	5.1
3	.0	.0	.1	1.6	2.7	.8	.1	.0	.0	164	.4	4.9
2	.0	.1	.8	4.0	4.5	.5	.1	.0	.0	311	1.0	8.9
1	.0	.1	.7	3.7	3.5	.4	.0	*	.0	259	.5	7.8
0	.0	.1	1.9	8.4	4.7	.2	.0	.0	.0	477	1.6	13.6
-1	.0	.1	1.5	5.9	2.4	.2	.0	.0	.0	312	.6	9.4
-2	*	.1	3.4	7.5	1.7	*	.0	.0	.0	401	1.5	11.4
-3	.0	.1	1.8	4.3	.9	.0	*	.0	.0	223	1.0	6.2
-4	*	.4	2.6	3.7	.4	.0	.0	.0	.0	224	.8	6.4
-5	.0	.3	1.7	2.0	.2	.0	.0	.0	.0	132	.4	3.9
-6	.0	.3	1.5	1.2	*	.0	.0	.0	.0	93	.5	2.5
-7/-8	.0	.3	1.1	.6	.1	*	.0	.0	.0	69	.2	2.0
-9/-10	.0	.2	.3	.4	*	.0	.0	.0	.0	25	.2	.6
-11/-13	.1	.1	.2	.1	.0	.0	.0	.0	.0	15	*	.4
-14/-16	.0	.0	*	.0	.0	.0	.0	.0	.0	1	.0	*
TOTAL	4	70	564	1431	838	175	27	12	1	3122	296	2826
PCT	.1	2.2	18.1	45.8	26.8	5.6	.9	.4	*	100.0	9.5	90.5

PERIOD: (OVER-ALL) 1963-1973

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.5	1.2	.0	.0	.0	.0	1.7
1-2	.0	4.7	2.2	.0	.0	.0	6.9
3-4	.0	.9	3.5	.6	.0	.0	5.0
5-6	.0	.5	1.4	.5	.1	.0	2.5
7	.0	.4	1.1	1.2	.0	.0	2.7
8-9	.0	.1	.4	.3	.1	.0	.8
10-11	.0	.0	.1	.1	.0	.0	.3
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.3	.0	.0	.3
17-19	.0	.0	.1	.0	.0	.0	.1
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.5	7.8	8.8	3.0	.2	.0	20.2

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	.6	.0	.0	.0	.0	.8
1-2	.1	1.0	.6	.0	.0	.0	1.8
3-4	.1	1.3	.6	.1	.0	.0	2.2
5-6	.0	.5	.7	.1	.0	.0	1.4
7	.0	.0	.2	.0	.0	.0	.2
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.1	.0	.0	.1
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	*	.0	.0	.0	*
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.5	3.4	2.1	.4	.0	.0	6.5

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	.3	.0	.0	.0	.0	.5
1-2	.4	1.6	.0	.0	.0	.0	2.0
3-4	.1	.3	.2	.2	.0	.0	.9
5-6	.0	.0	.0	.0	.1	.0	.1
7	.0	.0	.3	.1	.0	.0	.4
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.8	2.2	.5	.3	.1	.0	3.9

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.9	.1	.0	.0	.0	1.2
1-2	.4	.7	.1	.0	.0	.0	1.2
3-4	.0	.4	.5	.1	.0	.0	1.0
5-6	.0	.1	.5	.2	*	.0	.8
7	.0	.0	.6	.0	.0	.0	.6
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.1	.0	.1	.0	.0	.3
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.1	.0	.1
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.1	.0	.1
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.5	2.3	1.7	.4	.3	.0	5.3

PERIOD: (OVER-ALL) 1963-1979

NOVEMBER

AREA 0034 POINT MUGU NW
34.7N 121.3W

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

S

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	.5	.0	.0	.0	.0	.7
1-2	.1	1.4	1.0	.0	.0	.0	2.5
3-4	.0	.6	.8	.2	.0	.0	1.6
5-6	.0	.2	.7	.1	.0	.0	1.1
7	.0	.0	.4	.0	.0	.0	.4
8-9	.0	.0	.1	.0	.0	.0	.1
10-11	.0	.0	.1	.0	.0	.0	.1
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.4	2.7	3.2	.3	.0	.0	6.5

SW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	1.3	.0	.0	.0	.0	1.5
1-2	.1	1.5	.6	.0	.0	.0	2.3
3-4	.0	.4	.2	.2	.0	.0	.7
5-6	.0	.7	*	.0	.0	.0	.7
7	.0	.0	.2	.0	.0	.0	.2
8-9	.0	.1	.1	.0	.0	.0	.3
10-11	.0	.0	*	.0	.0	.0	*
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	4.1	1.2	.2	.0	.0	5.7

W

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.5	1.5	.0	.0	.0	.0	2.0
1-2	.3	3.4	1.0	.0	.0	.0	4.7
3-4	.0	.8	1.8	.0	.0	.0	2.6
5-6	.0	.4	.7	.1	.0	.0	1.3
7	.0	.1	.4	.0	.0	.0	.6
8-9	.0	.0	.1	.1	.0	.0	.2
10-11	.0	.0	.1	.0	.0	.0	.1
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.8	6.2	4.2	.2	.0	.0	11.5

NW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.3	2.3	.0	.0	.0	.0	2.7	
1-2	.3	7.4	5.0	.0	.0	.0	12.7	
3-4	.0	2.7	5.7	.2	.0	.0	8.6	
5-6	.0	.7	3.6	1.1	.2	.0	5.6	
7	.0	.3	1.9	.9	.0	.0	3.1	
8-9	.0	.2	.7	.4	*	.0	1.3	
10-11	.0	.0	*	.3	.0	.0	.3	
12	.0	.0	.0	.1	.0	.0	.1	
13-16	.0	.0	.1	.3	.0	.0	.4	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.6	13.6	17.1	3.4	.2	.0	34.9	94.5

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	8.0	8.8	.1	.0	.0	.0	16.9	
1-2	2.0	21.7	10.4	.0	.0	.0	34.1	
3-4	.3	7.3	13.3	1.6	.0	.0	22.5	
5-6	.0	3.2	7.6	2.1	.4	.0	13.3	
7	.0	.8	4.9	2.3	.0	.0	8.0	
8-9	.0	.4	1.5	.8	.1	.0	2.8	
10-11	.0	.1	.4	.7	.0	.0	1.2	
12	.0	.0	.0	.1	.0	.0	.1	
13-16	.0	.0	.1	.5	.1	.0	.8	
17-19	.0	.0	.1	.0	.0	.0	.1	
20-22	.0	.0	.0	.0	.1	.0	.1	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
								751
TOT PCT	10.3	42.3	38.5	8.1	.8	.0	100.0	

PERIOD: (OVER-ALL) 1949-1973

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	3.4	14.3	11.5	6.3	2.0	1.3	.1	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	650	3
6-7	.1	2.2	5.9	8.5	4.5	2.8	1.3	.5	.4	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	438	5
8-9	.0	1.1	1.8	2.9	4.6	2.4	1.0	.7	1.1	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	263	7
10-11	.0	.6	1.1	1.6	1.1	1.1	.7	.2	.2	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	117	6
12-13	.0	.0	.6	.7	.4	.4	.2	.3	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	49	7
>13	.0	.0	.0	.1	.1	.0	.2	.1	.2	.1	.1	.1	.0	.0	.0	.0	.0	.0	.0	15	12
INDET	4.7	1.1	1.2	.7	.4	.1	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	139	2
TOTAL	136	327	370	345	219	136	59	32	35	7	4	1	0	0	0	0	0	0	0	1671	5
PCT	8.1	19.6	22.1	20.6	13.1	8.1	3.5	1.9	2.1	.4	.2	.1	.0	.0	.0	.0	.0	.0	.0	100.0	

DECEMBER

PERIOD: (PRIMARY) 1936-1972
(OVER-ALL) 1868-1972

AREA 0034 POINT HUGU NW
34.5N 121.3W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG	DUST BLWG SNOW	NO SIG WEA
N	.7	.1	.2	.0	.0	.0	.0	.9	.4	.1	7.2	.1	3.4		.0	87.9
NE	1.3	.6	1.1	.0	.0	.0	.0	3.1	.4	.0	4.5	.0	4.7		.2	87.2
E	5.5	.6	2.2	.0	.0	.0	.0	8.0	.4	.0	7.5	.0	3.2		.7	80.1
SE	10.8	1.2	5.2	.0	.0	.0	.0	16.5	1.6	.0	8.9	.6	4.5		.0	67.8
S	10.0	6.5	4.4	.0	.0	.0	.0	19.5	3.0	.0	11.6	.3	5.8		.0	59.7
SW	2.6	2.2	4.8	.0	.0	.0	.0	9.4	2.1	.6	9.4	.0	7.8		.0	70.8
W	2.2	1.3	1.1	.0	.0	.0	.0	4.5	.6	.0	8.4	.0	6.0		.0	80.5
NW	1.1	.2	.5	.0	.0	.0	.0	1.5	.8	*	8.1	.6	3.6		.1	85.2
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	.0
CALM	2.1	.0	1.6	.0	.0	.0	.0	3.7	.5	.0	12.2	1.1	4.2		.0	78.3
TOT PCT	2.8	1.0	1.6	.0	.0	.0	.0	5.1	.9	.1	8.2	.3	4.4		.1	81.1
TOT OBS:	3200															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG	DUST BLWG SNOW	NO SIG WEA
00&03	2.4	1.3	1.1	.0	.0	.0	.0	4.7	.3	.0	7.6	.3	3.5		.0	81.5
06&09	2.8	.2	1.4	.0	.0	.0	.0	4.0	.9	.3	6.0	.2	2.6		.0	86.0
12&15	2.4	1.0	2.3	.0	.0	.0	.0	5.4	1.3	.0	8.5	.4	2.3		.0	82.1
18&21	3.3	1.2	1.5	.0	.0	.0	.0	5.6	1.1	.0	9.2	.3	5.7		.3	77.7
TOT PCT	2.8	1.0	1.5	.0	.0	.0	.0	5.0	.9	.1	8.1	.3	4.4		.1	81.2
TOT OBS:	3236															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	2.2	7.8	8.1	2.2	.1	.0		20.4	12.1	18.1	16.5	24.5	20.1	24.5	22.4	20.9	17.7
NE	2.4	4.6	2.1	.3	.0	.0		9.3	7.9	4.5	6.5	10.3	11.5	9.5	18.5	12.0	5.9
E	1.7	3.7	1.3	.3	*	.0		7.0	8.4	4.0	8.4	6.6	5.5	8.0	8.5	8.6	7.4
SE	.9	2.9	2.1	.4	.1	.0		6.4	10.5	6.8	6.0	5.1	5.5	5.1	7.2	5.5	8.8
S	.9	2.5	2.0	.9	.1	.0		6.5	12.5	6.9	4.5	5.6	5.9	5.9	7.3	5.9	8.6
SW	1.0	2.5	1.3	.2	.0	.0		5.1	8.9	4.7	3.8	5.0	4.3	4.8	4.1	4.8	7.8
W	2.0	6.4	2.8	.6	*	.0		11.9	9.2	17.6	10.6	8.7	10.1	7.9	7.5	10.5	15.2
NW	1.6	10.7	10.7	3.1	.2	.0		26.3	12.7	31.8	36.1	29.3	28.3	25.6	18.5	21.2	23.4
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	7.0							7.0	.0	5.6	7.6	5.1	8.9	8.6	6.0	10.5	4.4
TOT OBS	725	1518	1121	300	23	0	3687		10.2	716	275	375	270	454	382	645	570
TOT PCT	19.7	41.2	30.4	8.1	.6	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	5.4	9.8	4.6	.7	.0		20.4	12.1	17.6	22.6	23.5	19.4
NE	4.8	3.7	.8	*	.0		9.3	7.9	5.0	10.8	13.6	9.1
E	3.4	2.9	.6	.2	.0		7.0	8.4	5.2	6.1	8.3	8.0
SE	2.2	3.1	.9	.2	.0		6.4	10.5	6.6	5.2	6.1	7.1
S	2.0	2.6	1.4	.4	.0		6.5	12.5	6.3	5.7	6.6	7.1
SW	2.4	2.0	.6	.1	.0		5.1	8.9	4.5	4.7	4.5	5.2
W	4.9	5.4	1.4	.2	*		11.9	9.2	15.6	9.3	7.7	13.2
NW	5.5	13.1	6.7	1.0	.0		26.3	12.7	33.0	28.9	22.3	22.2
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	7.0						7.0	.0	6.2	6.7	7.4	7.7
TOT OBS	1389	1570	626	101	1	3687		10.2	991	645	336	1215
TOT PCT	37.7	42.6	17.0	2.7	*		100.0		100.0	100.0	100.0	100.0

DECEMBER

PERIOD: (PRIMARY) 1936-1972
(OVER-ALL) 1868-1972

TABLE 4

AREA 0034 POINT HUGU NW
34.3N 121.3W

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	6.2	11.1	40.4	31.7	10.0	.7	.0	10.8	100.0	991
06&09	6.7	12.1	39.8	33.0	8.1	.3	.0	10.5	100.0	645
12&15	7.4	13.2	43.9	27.6	6.8	1.1	.0	9.8	100.0	826
18&21	7.7	13.8	40.7	29.9	7.6	.4	.0	9.8	100.0	1215
TOT	259	466	1518	1121	300	23	0	10.2		3687
PCT	7.0	12.6	41.2	30.4	8.1	.6	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	11.3	3.6	4.8	2.8		3.1
NE	7.2	.7	1.3	1.4		2.4
E	3.5	.8	1.5	1.7		3.6
SE	1.0	.3	1.1	2.4		5.7
S	.9	.3	1.3	2.9		6.1
SW	1.1	.6	1.4	1.7		5.2
W	5.0	1.3	2.3	1.7		3.5
NW	14.0	3.7	5.4	3.3		3.1
VAR	.0	.0	.0	.0		.0
CALM	4.3	.6	1.5	1.3		3.0
TOT OBS	878	217	376	346	1817	3.5
TOT PCT	48.3	11.9	20.7	19.0	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NM >4/8) AND OCCURRENCE OF NM <5/8 BY WIND DIRECTION

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NM <5/8 ANY HGT	TOTAL OBS
N	.1	.1	.3	1.2	1.7	1.3	.2	.1	.1	.2	17.1	
NE	.1	.0	*	.1	.3	.3	.3	*	.0	.2	9.1	
E	.1	.0	.1	.1	.6	.5	.4	.0	.0	.3	5.5	
SE	.3	.1	.3	.6	.4	.5	.2	.1	*	.2	2.1	
S	.3	.1	.5	.6	.9	.2	.2	*	*	.1	2.3	
SW	.5	.0	.2	.3	.8	.4	.1	*	*	*	2.4	
W	.2	.1	.1	.5	.8	.6	.1	*	.1	.2	7.5	
NW	.4	.1	.4	1.2	2.4	1.0	.3	.1	.1	.2	20.2	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.2	.0	.0	.2	.4	.3	.1	.1	.1	.3	6.1	
TOT OBS	39	10	35	89	153	96	35	8	7	32	1319	1817
TOT PCT	2.1	.6	1.9	4.9	8.4	5.3	1.9	.4	.4	1.8	72.3	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NM >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM) * OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >50YD	* OR >0
* OR >6500	1.1	1.9	2.1	2.1	2.1	2.1	2.1	2.1
* OR >5000	1.4	2.3	2.6	2.6	2.6	2.6	2.6	2.6
* OR >3500	2.1	4.1	4.4	4.5	4.5	4.5	4.5	4.5
* OR >2000	5.6	8.7	9.6	9.7	9.8	9.8	9.8	9.8
* OR >1000	11.3	16.1	18.0	18.2	18.3	18.3	18.3	18.3
* OR >600	13.7	19.8	22.4	22.9	23.1	23.1	23.1	23.1
* OR >300	14.3	20.8	24.0	24.7	24.9	25.0	25.0	25.0
* OR >150	14.4	21.1	24.4	25.1	25.5	25.5	25.5	25.5
* OR > 0	14.4	21.3	25.0	26.1	26.7	27.0	27.5	27.7
TOTAL	265	392	459	479	491	496	506	508

TOTAL NUMBER OF OBS: 1837 PCT FREQ NM <5/8: 72.3

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
39.4	10.2	10.4	6.4	4.9	3.7	4.8	5.2	13.0	2.0	1926

PERIOD: (PRIMARY) 1936-1972
(OVER-ALL) 1868-1972

AREA 0034 POINT HUGU NW
34.5N 121.3W

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	*	.1	*	*	.0	.0	.0	.0	.2	
	NO PCP	.4	.2	.1	.2	.2	.1	.2	.4	.0	.3	2.1	
	TOT %	.4	.2	.1	.3	.2	.2	.2	.4	.0	.3	2.3	
1/2<1	PCP	.0	.1	.1	*	.1	*	.0	*	.0	*	.3	
	NO PCP	.6	.1	.1	.1	.2	.1	.2	.3	.0	*	1.7	
	TOT %	.6	.1	.1	.1	.3	.2	.2	.3	.0	.1	2.0	
1<2	PCP	*	.1	.2	.1	.1	.1	.1	*	.0	*	.8	
	NO PCP	.2	*	.1	.2	.2	.2	.4	.2	.0	.1	1.5	
	TOT %	.2	.1	.2	.3	.4	.2	.4	.2	.0	.2	2.3	
2<5	PCP	.1	*	.1	.3	.4	.1	.1	.1	.0	.1	1.3	
	NO PCP	.3	.5	.6	.4	.5	.3	.6	.6	.0	.4	4.4	
	TOT %	.4	.6	.7	.7	.9	.4	.7	.9	.0	.5	5.7	
5<10	PCP	*	.1	.1	.4	.6	.2	.3	.1	.0	.1	1.9	
	NO PCP	4.1	3.0	1.8	1.4	1.8	1.2	2.9	5.2	.0	1.3	22.8	
	TOT %	4.1	3.1	1.9	1.8	2.5	1.5	3.2	5.3	.0	1.4	24.7	
10+	PCP	*	.0	.1	.2	*	.1	.2	.1	.0	.0	.7	
	NO PCP	15.3	5.6	3.8	2.9	2.4	2.9	7.4	18.6	.0	3.5	62.4	
	TOT %	15.3	5.6	3.9	3.1	2.5	3.0	7.5	18.7	.0	3.5	63.0	
	TOT OBS												3196
	TOT PCT	21.0	9.7	7.0	6.3	6.7	5.3	12.2	25.8	.0	5.9	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.1	.1	.1	.1	*	.1	.1	*	.0	.3	.8	
	4-10	.1	.1	*	.1	.1	.1	.1	.2	.0		.9	
	11-21	.2	.1	.1	*	.1	*	*	.1	.0		.7	
	22+	.0	.0	.0	*	*	.0	.0	*	.0		.1	
	TOT %	.4	.2	.2	.3	.3	.2	.2	.4	.0	.3	2.4	
1/2<1	0-3	.1	*	.1	*	*	*	.1	.1	.0	.1	.4	
	4-10	.2	.1	.1	.1	.1	.1	.1	.2	.0		.9	
	11-21	.2	*	.0	*	.2	*	*	.1	.0		.5	
	22+	.1	.0	.0	*	*	*	.0	*	.0		.2	
	TOT %	.6	.1	.2	.1	.3	.2	.1	.3	.0	.1	2.0	
1<2	0-3	*	.1	.1	.1	.1	.1	.2	.1	.0	.2	1.0	
	4-10	.1	*	.1	.3	.1	*	.2	.1	.0		.8	
	11-21	*	*	*	.1	.2	.0	.1	.1	.0		.5	
	22+	.0	*	*	.1	.1	*	.0	.0	.0		.3	
	TOT %	.2	.1	.3	.5	.4	.2	.4	.3	.0	.2	2.6	
2<5	0-3	.1	.2	.2	.1	.2	.1	.1	.1	.0	.5	1.6	
	4-10	.3	.4	.3	.2	.3	.1	.5	.4	.0		2.5	
	11-21	.2	*	.1	.3	.2	.1	.1	.4	.0		1.5	
	22+	*	*	.1	.1	.2	.0	.0	.1	.0		.6	
	TOT %	.6	.6	.7	.7	1.0	.4	.7	1.1	.0	.5	6.2	
5<10	0-3	.7	1.2	.6	.2	.2	.2	.7	.4	.0	1.5	5.6	
	4-10	1.4	1.1	1.0	.8	.8	.8	1.4	2.1	.0		9.2	
	11-21	1.3	.6	.2	.6	.8	.4	.8	1.9	.0		6.4	
	22+	.4	*	.1	.1	.5	.1	.2	.7	.0		2.2	
	TOT %	3.8	2.9	1.8	1.7	2.3	1.4	3.0	5.1	.0	1.5	23.4	
10+	0-3	1.2	.9	.7	.4	.3	.6	.9	.9	.0	4.4	10.4	
	4-10	5.8	3.1	2.2	1.5	1.2	1.4	4.4	7.5	.0		27.0	
	11-21	6.1	1.4	.9	1.1	.7	.7	1.8	7.9	.0		20.6	
	22+	1.7	.2	.2	.1	.1	.1	.5	2.4	.0		5.4	
	TOT %	14.9	5.6	4.0	3.0	2.3	2.8	7.6	18.7	.0	4.4	63.3	
	TOT OBS												3494
	TOT PCT	20.4	9.6	7.1	6.4	6.5	5.1	12.1	25.9	.0	6.9	100.0	

DECEMBER

PERIOD: (PRIMARY) 1936-1972
(OVER-ALL) 1868-1972

AREA 0034 POINT HUGU NW
34.5N 121.3W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET,NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00&03	2.3	.8	2.8	4.9	8.3	6.0	2.1	.6	.0	2.3	30.1	69.9	529
06&09	2.3	.3	.5	4.8	4.8	4.8	1.5	.3	.0	1.0	20.2	79.8	396
12&15	1.8	.8	1.8	4.8	7.3	5.0	1.8	.3	.8	1.0	25.1	74.9	399
18&21	2.0	.4	2.0	4.5	11.5	4.8	2.0	.5	.7	2.2	30.5	69.5	558
TOT	39	10	35	89	156	98	35	8	7	32	509	1373	1882
PCT	2.1	.5	1.9	4.7	8.3	5.2	1.9	.4	.4	1.7	27.0	73.0	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00&03	2.5	1.8	2.7	7.1	23.8	62.1	954
06&09	1.7	1.6	1.6	4.7	24.2	66.2	633
12&15	3.2	2.1	2.6	4.5	26.7	60.8	801
18&21	2.0	2.4	3.1	7.4	20.3	64.8	1142
TOT	84	71	92	219	826	2238	3530
PCT	2.4	2.0	2.6	6.2	23.4	63.4	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET,NH >4/8),BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	2.3	6.3	15.0	18.0	67.0	512
06&09	2.3	3.3	10.7	10.5	78.8	392
12&15	1.8	4.6	11.6	15.2	73.2	388
18&21	2.0	5.9	15.2	19.1	65.7	549
TOT	39	95	247	296	1294	1837
PCT	2.1	5.2	13.4	16.1	70.4	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
75/79	.1	.1	.0	.0	.0	.0	.0	.0	5	.2
70/74	.3	.1	.2	.3	.2	.1	.1	.0	28	1.3
65/69	.2	.3	.6	.5	1.0	1.0	.4	.1	89	4.1
60/64	.1	.5	.4	1.2	4.2	6.5	8.3	3.1	526	24.3
55/59	.1	.4	.7	1.8	6.4	11.7	16.7	11.3	1063	49.1
50/54	.1	.1	.5	1.8	4.2	4.4	4.6	2.9	402	18.6
45/49	.0	.0	.0	.2	.5	.4	.6	.3	43	2.0
40/44	.0	.0	.0	.0	.0	.2	.1	.1	9	.4
TOTAL	19	32	52	125	357	524	669	387	2165	100.0
PCT	.9	1.5	2.4	5.8	16.5	24.2	30.9	17.9		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.1	*	.0	.0	.0	.0	*	.0	.0
.1	.3	.2	*	.0	.1	*	.4	.0	.1
.4	.4	.3	.1	.4	.5	.9	.8	.0	.3
2.9	2.0	1.6	1.9	2.7	1.8	4.5	5.6	.0	1.3
10.8	2.9	3.0	3.3	2.7	2.6	5.9	15.8	.0	2.0
5.2	1.7	1.1	.7	.7	.4	1.6	5.6	.0	1.5
.4	.8	.3	.1	*	*	*	.2	.0	.2
*	.2	.1	.0	.0	.0	.0	.0	.0	.1
19.7	8.5	6.7	6.2	6.6	5.4	13.0	28.5	.0	5.5

TABLE 15

MEANS,EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00&03	78	70	65	58	52	50	46	58.5	998
06&09	75	65	62	56	50	46	44	56.0	654
12&15	70	65	62	56	48	43	41	55.6	844
18&21	78	73	66	58	52	49	45	58.5	1211
TOT	78	70	64	57	51	46	41	57.4	3707

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00&03	.6	9.4	15.4	25.3	31.7	17.6	78	663
06&09	.6	7.5	11.9	24.4	37.1	18.6	79	381
12&15	.4	7.4	15.2	22.4	30.7	23.9	79	473
18&21	1.6	12.6	20.5	24.9	27.3	13.2	74	699
TOT	19	212	360	536	680	389	77	2196

DECEMBER

PERIOD: (PRIMARY) 1936-1972
(OVER-ALL) 1868-1972

AREA 0034 POINT HUGU NW
34.5N 121.3W

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	41 44	45 48	49 52	53 56	57 60	61 64	65 68	69 72	73 76	TOT	W FOG	WO FOG
23/25	.0	.0	.0	.0	.0	.0	.0	.0	*	1	.0	*
20/22	.0	.0	.0	.0	.0	.0	*	*	*	3	.0	.1
17/19	.0	.0	.0	.0	.0	.0	.1	.0	*	3	.0	.1
14/16	.0	.0	.0	.0	.0	.0	*	.1	*	4	*	.1
11/13	.0	.0	.0	.0	*	*	*	.1	.2	10	.0	.4
9/10	.0	.0	.0	*	*	.1	.3	.3	.0	19	.0	.8
7/8	.0	.0	.0	.1	.2	1.2	.8	.3	.0	59	.4	2.1
6	.0	.0	.0	*	.4	.7	.2	*	.0	33	.2	1.3
5	.0	.0	.0	.1	.3	1.3	.3	.0	.0	45	.1	1.8
4	.0	.0	.0	.3	1.8	2.3	.2	.0	.0	107	.1	4.5
3	.0	.0	.0	.4	2.4	1.6	.2	.0	.0	105	.3	4.2
2	.0	.0	.2	1.9	5.1	2.3	.0	.0	*	221	.8	8.7
1	.0	.0	.1	1.6	4.3	1.7	.1	.0	.0	179	.8	7.0
0	.0	.0	.4	6.2	7.8	2.0	*	.0	.0	381	1.7	14.8
-1	.0	.0	.3	4.3	5.0	.7	.0	.0	.0	237	.7	9.5
-2	.0	.0	.8	6.5	4.9	.7	*	.0	.0	300	1.5	11.5
-3	.0	*	.7	4.7	2.6	.3	.0	.0	.0	192	.6	7.7
-4	.0	.0	1.3	3.2	1.6	.3	.0	.0	.0	147	.3	6.0
-5	.0	.1	1.1	2.5	.9	.2	.0	*	.0	116	.3	4.7
-6	.0	.0	.8	1.5	.3	.2	.0	.0	.0	65	.1	2.7
-7/-8	.0	.1	1.0	1.1	.3	.1	.0	.0	.0	60	.2	2.4
-9/-10	*	.1	.1	.2	.1	.0	.0	.0	.0	15	.0	.6
-11/-13	.0	.1	.2	.1	*	.1	.0	.0	.0	13	.1	.4
-14/-16	*	.0	.0	.0	.0	.0	.0	.0	.0	1	.0	*
TOTAL	2	13	165	803	884	363	57	20	9	2316	193	2123
PCT	.1	.6	7.1	34.7	38.2	15.7	2.5	.9	.4	100.0	8.3	91.7

PERIOD: (OVER-ALL) 1963-1972

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.7	1.6	.0	.0	.0	.0	2.3
1-2	.1	3.3	1.9	.0	.0	.0	5.4
3-4	.0	2.1	4.6	.5	.0	.0	7.1
5-6	.0	.3	3.4	.6	.0	.0	4.2
7	.0	.0	1.3	.6	.1	.0	2.1
8-9	.0	.3	1.1	.6	.0	.0	1.9
10-11	.0	.0	.1	.4	.0	.0	.5
12	.0	.0	.0	.1	.0	.0	.1
13-16	.0	.0	.0	.0	.1	.0	.1
17-19	.0	.0	.0	.2	.0	.0	.2
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.8	7.5	12.5	2.9	.2	.0	23.9

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	*	.6	.2	.0	.0	.0	.8
1-2	.0	.6	.2	.0	.0	.0	.8
3-4	.0	.6	.6	.3	.0	.0	1.5
5-6	.0	.0	.2	.0	.0	.0	.2
7	.0	.2	.0	.0	.0	.0	.2
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	*	1.9	1.2	.3	.0	.0	3.4

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	.8	.0	.0	.0	.0	1.1
1-2	.5	.9	.3	.0	.0	.0	1.7
3-4	.2	.6	.3	.0	.0	.0	1.0
5-6	.0	.2	.5	.0	.0	.0	.7
7	.2	.0	.0	.0	.0	.0	.2
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.1	2.4	1.1	.0	.0	.0	4.6

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	.3	.2	.0	.0	.0	.8
1-2	.0	.8	.9	.0	.0	.0	1.7
3-4	.0	.6	.8	.0	.0	.0	1.4
5-6	.0	.0	.3	*	.0	.0	.4
7	.0	*	.2	.2	.0	.0	.4
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	1.7	2.4	.2	.0	.0	4.6

PERIOD: (OVER-ALL) 1963-1972 DECEMBER AREA 0034 POINT MUGU NW

TABLE 18 (CONT) 34.5N 121.3W

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

S

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.7	.2	.0	.0	.0	1.0
1-2	.0	.7	.4	.0	.0	.0	1.1
3-4	.0	.7	.5	.2	.0	.0	1.3
5-6	.0	.0	.8	.3	.0	.0	1.1
7	.0	.1	.3	.3	.2	.0	.9
8-9	.0	.0	.2	.0	.0	.0	.2
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.1	2.1	2.3	.8	.2	.0	5.5

SW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.6	.8	.2	.0	.0	.0	1.6
1-2	.3	1.7	.8	.0	.0	.0	2.9
3-4	.0	.9	.7	.2	.0	.0	1.7
5-6	.0	.2	.1	*	.0	.0	.3
7	.0	.0	.2	.0	.0	.0	.2
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.2	.0	.0	.0	.2
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.9	3.7	2.1	.2	.0	.0	6.9

W

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.6	.7	.0	.0	.0	.0	1.3
1-2	.0	2.4	.3	.0	.0	.0	2.7
3-4	.0	1.3	.9	.3	.0	.0	2.5
5-6	.0	.8	1.3	.1	.0	.0	2.2
7	.0	.3	.5	.4	.1	.0	1.3
8-9	.0	.0	.2	.0	.0	.0	.2
10-11	.0	.0	.2	.2	.0	.0	.3
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.6	5.5	3.3	1.0	.1	.0	10.5

NW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.5	3.0	.3	.0	.0	.0	3.8	
1-2	.5	3.7	2.1	.0	.0	.0	6.3	
3-4	.0	2.5	6.7	1.5	.0	.0	10.9	
5-6	.0	1.3	5.4	.7	.0	.0	7.4	
7	.0	.4	2.7	1.4	.2	.0	4.7	
8-9	.0	*	1.5	.2	.0	.0	1.7	
10-11	.0	.0	1.0	1.1	.0	.0	2.1	
12	.0	.0	.0	.5	.0	.0	.5	
13-16	.0	.0	.0	.0	*	.0	*	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	1.0	11.0	19.6	5.5	.3	.0	37.4	96.8

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	6.4	8.5	.9	.0	.0	.0	15.8	
1-2	2.3	14.2	6.7	.0	.0	.0	23.3	
3-4	.2	9.1	14.9	3.0	.0	.0	27.1	
5-6	.0	2.7	11.9	1.7	.0	.0	16.3	
7	.2	.9	5.2	2.8	.6	.0	9.7	
8-9	.0	.3	2.8	.8	.0	.0	3.9	
10-11	.0	.0	1.3	1.6	.0	.0	2.8	
12	.0	.0	.2	.6	.0	.0	.8	
13-16	.0	.0	.0	.0	.2	.0	.2	
17-19	.0	.0	.0	.2	.0	.0	.2	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	9.1	35.7	43.8	10.6	.8	.0	100.0	639

PERIOD: (OVER-ALL) 1949-1972 TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	2.8	9.1	13.8	6.2	2.7	1.5	.5	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	473	4
6-7	.2	1.2	4.7	5.6	4.0	2.5	1.3	1.1	.2	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	265	6
8-9	.1	.9	2.0	2.4	3.6	3.0	1.9	1.2	1.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	210	7
10-11	.0	.5	1.0	.9	1.6	1.6	1.6	.5	.6	.2	.2	.1	.0	.0	.0	.0	.0	.0	.0	113	8
12-13	.0	.0	2.0	.7	.7	.4	.6	.4	.4	.2	.1	.0	.1	.0	.0	.0	.0	.0	.0	71	7
>13	.0	.0	.0	.5	.5	.2	.5	.3	.2	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	28	9
INDET	4.1	1.6	1.3	.9	.6	.2	.5	.1	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	119	3
TOTAL	91	170	317	220	174	119	87	48	37	7	6	2	1	0	0	0	0	0	0	1279	5
PCT	7.1	13.3	24.8	17.2	13.6	9.3	6.8	3.8	2.9	.5	.5	.2	.1	.0	.0	.0	.0	.0	.0	100.0	

ANNUAL

PERIOD: (PRIMARY) 1936-1974
(OVER-ALL) 1854-1974

AREA 0034 POINT HUGU NW
34.6N 121.2W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA				
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	.4	.2	1.0	.0	.0	.0	*	1.6	.4	.1	8.0	.2	4.5	*		85.3
NE	1.2	.2	1.4	.0	.0	.0	*	2.7	.5	.0	16.3	.5	9.4	.1		70.6
E	3.4	.7	2.8	.0	.0	.0	*	6.0	.9	.0	21.7	.3	10.1	.2		60.8
SE	4.8	.9	3.6	.0	.0	.0	.0	8.6	1.4	.0	20.7	.4	9.5	.0		59.4
S	4.2	1.5	3.1	.0	.0	.0	.0	8.2	1.9	.0	18.2	.3	11.9	*		59.5
SW	2.1	1.0	2.9	.0	.0	.0	.0	5.8	1.1	.2	16.5	.3	13.1	.1		62.9
W	.8	.6	1.0	.0	.0	.0	*	2.2	.5	.1	12.3	.2	11.9	.1		72.7
NW	.5	.3	.9	.0	.0	.0	*	1.5	.5	*	9.1	.2	5.5	.1		83.1
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0
CALM	1.0	.1	1.3	.0	.0	.0	.0	2.4	.4	*	26.9	.3	14.4	.0		55.6
TOT PCT	1.3	.5	1.4	.0	.0	.0	*	3.0	.6	.1	12.1	.2	8.1	.1		75.8
TOT OBS: 50277																

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA				
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00&03	1.1	.5	1.1	.0	.0	.0	.0	2.5	.5	*	8.9	.2	9.5	.1		78.4
06&09	1.3	.3	1.4	.0	.0	.0	*	2.9	.7	.1	10.9	.2	5.6	.1		79.6
12&15	1.5	.6	2.2	.0	.0	.0	*	4.1	.8	.1	14.9	.2	5.7	*		74.3
18&21	1.2	.4	1.1	.0	.0	.0	*	2.5	.6	*	13.3	.3	10.7	.1		72.4
TOT PCT	1.3	.5	1.4	.0	.0	.0	*	3.0	.6	.1	12.1	.2	8.1	.1		75.8
TOT OBS: 50769																

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	1.4	5.6	7.7	2.8	.2	.0		17.7	13.9	15.8	13.5	20.5	17.6	21.6	19.1	18.0	14.8
NE	1.4	2.3	.9	.1	*	.0		4.7	7.0	1.7	2.6	4.6	5.8	7.0	8.9	5.6	2.3
E	1.0	1.8	.6	.1	*	.0		3.6	6.4	1.5	2.5	2.9	4.1	4.4	6.3	4.4	3.1
SE	.8	2.1	.9	.2	*	.0		4.1	8.1	3.2	3.0	3.3	4.5	3.5	5.4	4.5	4.9
S	1.0	2.2	1.1	.3	*	.0		4.6	8.0	4.7	3.6	4.2	3.6	3.7	3.9	5.8	6.1
SW	1.0	2.8	.9	.1	*	.0		4.9	7.7	5.3	4.3	3.4	4.1	3.3	3.8	6.0	7.3
W	2.1	9.0	4.8	.7	*	.0		16.6	9.4	24.0	21.1	13.5	14.1	10.4	10.9	16.2	20.5
NW	2.0	12.2	17.3	5.8	.3	.0		37.7	13.9	40.8	45.0	41.8	38.8	36.4	33.7	31.0	37.7
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	6.2							6.2	.0	3.0	4.5	5.7	7.6	9.7	8.0	8.4	3.2
TOT OBS							55930		11.0	9440	4179	6850	4488	7674	6010	9171	8118
TOT PCT	17.0	38.0	34.2	10.1	.6	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	3.7	7.7	5.5	.8	*		17.7	13.9	15.1	19.3	20.5	16.5
NE	2.8	1.5	.4	*	.0		4.7	7.0	2.0	5.1	7.9	4.0
E	2.1	1.2	.3	*	.0		3.6	6.4	1.8	3.3	5.2	3.8
SE	1.9	1.7	.4	.1	*		4.1	8.1	3.1	3.8	4.3	4.7
S	2.2	1.7	.6	.1	*		4.6	8.0	4.3	4.0	3.8	6.0
SW	2.5	2.0	.4	*	*		4.9	7.7	5.0	2.7	3.5	6.7
W	6.2	8.4	1.9	.2	*		16.6	9.4	23.1	13.8	10.6	18.2
NW	6.4	17.7	11.8	1.7	*		37.7	13.9	42.1	40.7	33.2	34.2
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	6.2						6.2	.0	3.4	6.5	8.9	6.0
TOT OBS						55930		11.0	13619	11338	13684	17289
TOT PCT	33.9	41.9	21.1	3.1	.1		100.0		100.0	100.0	100.0	100.0

ANNUAL

PERIOD: (PRIMARY) 1936-1974
(OVER-ALL) 1854-1974

AREA 0034 POINT HUGU NW
34.6N 121.2W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	3.4	7.9	37.2	38.2	12.3	.9	.0	12.3	100.0	13619
06&09	6.5	10.3	34.9	36.0	11.7	.6	.0	11.6	100.0	11338
12&15	8.9	12.6	36.7	32.1	9.2	.5	.0	10.3	100.0	13684
18&21	6.0	12.0	41.8	31.5	8.1	.5	.0	10.3	100.0	17289
TOT								11.0		55930
PCT	6.2	10.8	38.0	34.2	10.1	.6	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	8.3	2.0	3.5	5.0		3.9
NE	3.5	.4	.7	1.2		3.3
E	1.7	.3	.6	1.1		4.2
SE	.8	.3	.7	1.8		5.6
S	1.0	.3	1.1	2.0		5.6
SW	1.4	.4	1.1	1.6		4.8
W	8.0	1.4	2.9	4.2		3.6
NW	15.7	3.3	6.3	10.0		3.8
VAR	.0	.0	.0	.0		.0
CALM	3.2	.4	.9	3.0		4.2
TOT OBS					31386	4.0
TOT PCT	43.6	8.7	17.9	29.8	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.5	.1	.6	1.5	2.8	1.4	.3	.1	*	.1	11.3	
NE	.1	*	.1	.2	.5	.3	.1	*	*	.1	4.3	
E	.2	*	.1	.2	.4	.3	.1	*	*	.1	2.3	
SE	.3	*	.1	.4	.7	.4	.1	*	*	.1	1.5	
S	.3	*	.2	.5	.9	.4	.1	*	*	.1	1.9	
SW	.2	*	.1	.4	.8	.4	.1	*	*	*	2.3	
W	.6	*	.4	1.1	2.1	1.0	.2	.1	.1	.2	10.7	
NW	1.4	.1	1.0	2.9	5.3	2.4	.6	.2	.1	.2	21.1	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.8	*	.3	.6	1.1	.4	.1	*	*	.1	4.0	
TOT OBS												31386
TOT PCT	4.4	.4	2.8	7.8	14.5	6.9	1.8	.5	.4	1.0	59.4	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM) * OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >50YD	* OR >0
* OR >6500	.7	1.2	1.4	1.4	1.4	1.4	1.4	1.4
* OR >5000	1.0	1.7	1.9	1.9	1.9	1.9	1.9	1.9
* OR >3500	1.9	3.3	3.6	3.7	3.7	3.7	3.7	3.7
* OR >2000	5.6	9.5	10.4	10.6	10.6	10.6	10.6	10.6
* OR >1000	12.8	21.0	24.1	24.9	25.1	25.1	25.1	25.1
* OR >600	15.8	26.6	30.9	32.4	32.8	32.9	32.9	32.9
* OR >300	16.5	28.2	33.1	35.0	35.6	35.6	35.7	35.7
* OR >150	16.6	28.4	33.4	35.4	35.9	36.0	36.1	36.1
* OR > 0	16.7	28.8	34.2	36.6	38.1	38.9	40.2	40.4

TOTAL NUMBER OF OBS: 31543 PCT FREQ NH <5/8: 59.6

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
35.7	7.4	7.7	4.6	3.4	3.2	5.6	5.6	22.9	3.8	32785

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PERIOD: (PRIMARY) 1936-1974
(OVER-ALL) 1854-1974

AREA 0034 POINT MUGU NW
34.6N 121.2W

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	*	*	*	*	*	*	*	*	.0	*	.1	
	NO PCP	.3	.1	.1	.2	.2	.2	.3	.8	.0	.5	2.7	
	TOT %	.3	.1	.2	.2	.2	.2	.3	.9	.0	.5	2.8	
1/2<1	PCP	*	*	*	.1	*	*	*	*	.0	*	.2	
	NO PCP	.3	.1	.1	.1	.1	.1	.3	.5	.0	.2	1.9	
	TOT %	.3	.1	.1	.2	.2	.1	.3	.6	.0	.2	2.1	
1<2	PCP	*	*	*	.1	.1	*	*	*	.0	*	.3	
	NO PCP	.2	.2	.1	.2	.2	.2	.6	.5	.0	.3	2.6	
	TOT %	.2	.2	.2	.3	.3	.3	.6	.6	.0	.4	2.9	
2<5	PCP	.1	.1	.1	.1	.2	.1	.1	.1	.0	*	.7	
	NO PCP	.7	.4	.3	.4	.4	.5	1.8	1.8	.0	1.0	7.3	
	TOT %	.8	.5	.4	.5	.6	.6	1.8	1.9	.0	1.0	8.1	
5<10	PCP	.1	.1	.1	.1	.2	.1	.2	.2	.0	*	1.2	
	NO PCP	4.7	1.5	1.1	1.1	1.4	1.6	5.7	10.4	.0	1.7	29.1	
	TOT %	4.8	1.6	1.1	1.3	1.6	1.7	5.9	10.7	.0	1.8	30.3	
10+	PCP	*	*	*	.1	*	*	.1	.1	.0	*	.4	
	NO PCP	11.5	2.5	1.6	1.6	1.9	2.1	7.8	22.4	.0	2.0	53.4	
	TOT %	11.6	2.5	1.6	1.7	2.0	2.2	7.9	22.5	.0	2.0	53.8	
	TOT OBS												50200
	TOT PCT	18.0	4.9	3.6	4.0	4.8	5.0	16.8	37.0	.0	5.9	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.1	*	.1	.1	.1	.1	.1	.1	.0	.5	1.1	
	4-10	.1	.1	.1	.1	.1	.1	.2	.5	.0		1.2	
	11-21	.1	*	*	*	*	*	.1	.3	.0		.6	
	22+	*	.0	*	*	*	.0	*	*	.0		.1	
	TOT %	.3	.1	.2	.2	.2	.2	.4	1.0	.0	.5	3.0	
1/2<1	0-3	*	*	*	*	.1	.1	.1	.1	.0	.2	.7	
	4-10	.1	*	*	.1	.1	.1	.1	.2	.0		.7	
	11-21	.1	*	*	*	*	*	.1	.2	.0		.5	
	22+	*	.0	*	*	*	*	*	*	.0		.1	
	TOT %	.3	.1	.1	.2	.2	.1	.3	.6	.0	.2	2.1	
1<2	0-3	.1	.1	.1	.1	.1	.1	.1	.1	.0	.4	1.1	
	4-10	.1	.1	.1	.1	.1	.1	.4	.3	.0		1.3	
	11-21	.1	*	*	*	*	*	.1	.2	.0		.5	
	22+	*	*	*	*	*	*	*	.1	.0		.1	
	TOT %	.2	.2	.2	.3	.3	.3	.6	.7	.0	.4	3.1	
2<5	0-3	.2	.2	.2	.1	.2	.2	.4	.3	.0	1.0	2.8	
	4-10	.3	.2	.2	.2	.3	.4	1.2	1.0	.0		3.8	
	11-21	.3	*	*	.1	.1	.1	.3	.8	.0		1.7	
	22+	.1	*	*	*	.1	*	*	.2	.0		.4	
	TOT %	.8	.5	.4	.5	.6	.6	1.9	2.3	.0	1.0	8.7	
5<10	0-3	.5	.6	.3	.2	.3	.3	.8	.6	.0	1.8	5.4	
	4-10	1.4	.7	.6	.6	.7	.9	3.1	3.4	.0		11.4	
	11-21	1.9	.2	.2	.3	.3	.3	1.3	4.7	.0		9.5	
	22+	.8	*	*	.1	.1	*	.2	1.7	.0		3.0	
	TOT %	4.6	1.5	1.1	1.2	1.5	1.6	5.6	10.4	.0	1.8	29.2	
10+	0-3	.6	.4	.3	.3	.3	.3	.6	.7	.0	2.3	5.9	
	4-10	3.5	1.3	.9	1.0	1.0	1.2	4.1	6.6	.0		19.6	
	11-21	5.2	.6	.3	.4	.6	.5	2.8	10 9	.0		21.4	
	22+	2.0	.1	.1	.1	.1	.1	.5	4.2	.0		7.0	
	TOT %	11.4	2.5	1.6	1.7	1.9	2.1	8.0	22.4	.0	2.3	53.9	
	TOT OBS												53951
	TOT PCT	17.7	4.8	3.6	4.0	4.7	4.9	16.8	37.4	.0	6.2	100.0	

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PERIOD: (PRIMARY) 1936-1974
(OVER-ALL) 1854-1974

AREA 0034 POINT MUGU NW
34.0N 121.2W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET,NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00&03	3.1	.4	2.4	7.4	13.2	6.7	1.7	.6	.3	1.1	37.0	63.0	8244
06&09	4.5	.4	2.2	6.0	12.3	6.2	1.5	.3	.3	.7	34.4	65.6	7455
12&15	6.4	.4	3.3	8.4	15.1	7.6	1.7	.5	.4	.9	44.7	55.3	7357
18&21	3.6	.4	3.1	8.7	16.3	7.0	2.0	.5	.6	1.2	43.4	56.6	9066
TOT													32122
PCT	4.3	.4	2.8	7.7	14.3	6.8	1.8	.5	.4	1.0	40.0	60.0	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00&03	1.9	1.9	2.4	7.8	30.1	56.0	13270
06&09	3.1	1.6	2.4	7.2	29.4	56.2	11185
12&15	4.7	2.8	3.6	8.3	28.6	52.1	13246
18&21	2.5	2.0	3.0	10.7	28.9	52.0	16757
TOT							54458
PCT	3.0	2.1	3.1	8.7	29.2	53.9	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET,NH >4/8),BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	3.2	6.6	20.8	20.9	58.3	8061
06&09	4.4	7.6	20.4	18.2	61.4	7339
12&15	6.4	11.5	26.7	21.9	51.3	7239
18&21	3.6	8.3	25.5	22.6	51.9	8904
TOT						31543
PCT	4.4	8.4	23.4	21.0	55.6	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
80/84	*	.0	*	.0	*	*	.0	.0		.1
75/79	*	*	*	.1	.1	.1	*	*		.3
70/74	.1	.1	.1	.2	.4	.6	.3	.1		1.8
65/69	.1	.1	.2	.4	1.0	2.6	3.1	1.1		8.6
60/64	.1	.2	.2	.7	2.7	7.0	12.7	6.4		29.8
55/59	*	.1	.3	.8	2.6	8.2	17.1	11.5		40.6
50/54	*	.1	.2	.6	2.2	3.1	6.3	4.2		16.8
45/49	.0	*	.1	.2	.3	.3	.5	.3		1.7
40/44	.0	*	*	*	.1	.1	.1	*		.3
35/39	.0	.0	.0	*	*	*	*	.0		*
30/34	.0	.0	.0	.0	.0	.0	*	.0		*
TOTAL									33024	100.0
PCT	.4	.6	1.0	2.9	9.4	22.0	40.0	23.6		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
*	*	*	*	.0	*	*	*	.0	*
*	*	*	*	*	*	.1	.1	.0	*
.2	.1	.1	.1	.2	.2	.5	.3	.0	.1
1.0	.3	.2	.3	.5	.8	2.3	2.5	.0	.6
4.9	.9	.9	1.2	1.6	1.6	5.8	11.2	.0	1.6
7.7	1.6	1.3	1.7	1.9	1.7	5.9	16.7	.0	2.1
3.7	1.1	.7	.5	.7	.6	1.9	6.8	.0	.8
.4	.5	.2	*	*	*	.1	.4	.0	.1
.1	.2	*	*	.0	*	*	*	.0	*
*	*	*	*	.0	.0	.0	.0	.0	.0
*	*	.0	.0	.0	.0	.0	.0	.0	.0
18.1	4.7	3.4	3.8	4.9	5.0	16.6	38.1	.0	5.4

TABLE 15

MEANS,EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00&03	85	71	67	59	54	52	37	59.8	13649
06&09	82	66	63	57	52	49	40	57.4	11393
12&15	84	66	62	57	50	47	34	56.6	13762
18&21	84	73	68	60	54	51	41	60.0	17330
TOT	85	70	66	58	52	49	34	58.6	56134

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00&03	.2	4.0	10.5	26.1	41.3	17.9	81	8991
06&09	.2	2.7	5.7	16.7	43.3	31.3	85	6747
12&15	.3	3.4	6.5	15.7	40.3	33.7	85	7747
18&21	.8	7.0	13.1	27.1	36.8	15.2	78	9881
TOT	131	1434	3058	7336	13478	7929	82	33366

PERIOD: (PRIMARY) 1936-1974
(OVER-ALL) 1854-1974

AREA 0034 POINT MUGU NW
34.6N 121.2W

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	37 40	41 44	45 48	49 52	53 56	57 60	61 64	65 68	69 72	73 76	77 80	81 84	TOT	W FOG	WO FOG
23/25	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	.0	.0	2	.0	*
20/22	.0	.0	.0	.0	.0	.0	.0	*	*	*	*	*	13	*	*
17/19	.0	.0	.0	.0	.0	.0	.0	*	*	*	*	*	27	*	.1
14/16	.0	.0	.0	.0	.0	*	*	.1	.1	.1	*	.0	100	*	.3
11/13	.0	.0	.0	.0	*	*	.1	.2	.1	.1	*	*	232	*	.6
9/10	.0	.0	.0	.0	*	.1	.3	.4	.2	*	*	*	388	.1	1.0
7/8	.0	.0	.0	*	.1	.4	1.0	.6	.2	*	*	*	869	.2	2.2
6	.0	.0	.0	*	.1	.4	.6	.3	.1	*	*	.0	574	.1	1.5
5	.0	.0	.0	*	.3	.9	1.4	.5	.1	*	*	.0	1220	.2	3.1
4	.0	.0	.0	.1	.7	2.1	2.2	.7	.1	*	*	.0	2124	.5	5.3
3	.0	.0	.0	*	.6	2.0	1.4	.5	.1	*	.0	.0	1721	.3	4.4
2	.0	.0	*	.2	2.2	4.4	3.2	.6	.1	*	*	.0	3872	1.1	9.5
1	.0	.0	.0	.2	2.3	3.4	2.0	.5	*	*	*	.0	3057	.7	7.7
0	.0	.0	*	.9	5.6	6.4	3.6	.7	.1	*	*	.0	6274	1.9	15.4
-1	.0	.0	*	.6	3.8	3.7	1.7	.3	*	*	*	.0	3665	.8	9.3
-2	.0	.0	.1	1.6	4.8	4.1	1.8	.2	*	*	.0	.0	4530	1.3	11.3
-3	.0	.0	*	1.0	2.5	2.0	.9	.1	*	*	.0	.0	2328	.6	5.9
-4	.0	*	.1	1.3	2.1	1.8	.6	.1	*	*	*	.0	2180	.6	5.5
-5	.0	*	.1	.8	1.2	1.0	.4	*	*	.0	.0	.0	1238	.4	3.1
-6	.0	.0	.1	.5	.7	.5	.2	*	.0	.0	.0	.0	705	.2	1.8
-7/-8	.0	*	.1	.5	.5	.4	.2	*	*	.0	.0	.0	643	.2	1.6
-9/-10	.0	*	.1	.2	.2	.2	*	*	*	.0	.0	.0	248	.1	.6
-11/-13	.0	*	.1	.1	.1	.1	*	*	.0	.0	.0	.0	121	.1	.3
-14/-16	*	*	*	*	*	*	.0	.0	.0	.0	.0	.0	23	*	.1
-17/-19	.0	.0	.0	.0	*	*	.0	.0	.0	.0	.0	.0	5	.0	*
TOTAL													36159		
PCT	*	*	.7	7.8	27.8	33.9	21.8	5.9	1.4	.4	.1	*	100.0	9.4	90.6

PERIOD: (OVER-ALL) 1963-1974

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	1.0	*	.0	.0	.0	1.4
1-2	.2	3.0	2.1	.0	.0	.0	5.2
3-4	*	1.8	4.4	.8	.0	.0	7.0
5-6	*	.4	2.9	.9	*	.0	4.2
7	.0	.2	1.4	.9	*	.0	2.5
8-9	.0	.1	.5	.6	*	.0	1.2
10-11	.0	.0	.2	.4	.1	.0	.7
12	.0	.0	.1	.1	*	.0	.2
13-16	.0	.0	*	.2	*	.0	.3
17-19	.0	.0	*	*	*	.0	.1
20-22	.0	.0	*	.0	.0	.0	*
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.6	6.4	11.7	4.0	.2	.0	22.8

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.3	*	.0	.0	.0	.4
1-2	.1	.7	.3	.0	.0	.0	1.0
3-4	*	.4	.3	.1	.0	.0	.8
5-6	.0	.1	.3	*	.0	.0	.4
7	.0	*	.1	*	.0	.0	.1
8-9	.0	*	*	*	.0	.0	*
10-11	.0	*	*	*	.0	.0	.1
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	*	.0	.0	*
17-19	.0	.0	*	*	.0	.0	*
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	1.5	1.0	.1	.0	.0	2.9

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	.4	.0	.0	.0	.0	.5
1-2	.1	.6	.2	.0	.0	.0	.9
3-4	*	.2	.1	*	.0	.0	.3
5-6	.0	*	.1	*	*	.0	.1
7	*	.0	*	*	.0	.0	.1
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	1.1	.4	.1	*	.0	1.9

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.5	*	.0	.0	.0	.6
1-2	.1	.8	.4	.0	.0	.0	1.3
3-4	*	.3	.4	.1	.0	.0	.7
5-6	.0	*	.2	.1	*	.0	.3
7	*	.0	.1	*	*	.0	.2
8-9	.0	.0	*	*	.0	.0	*
10-11	.0	.0	*	*	.0	.0	.1
12	.0	.0	.0	.0	*	.0	*
13-16	.0	.0	.0	*	*	.0	*
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	*	.0	*
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	1.5	1.2	.2	.1	.0	3.2

PERIOD: (OVER-ALL) 1963-1974

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TABLE 18 (CONT)

AREA 0034 POINT MUGU NW
34.6N 121.2W

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

	S							SW						
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	.5	*	.0	.0	.0	.7	.2	.5	*	.0	.0	.0	.7
1-2	.1	1.0	.5	.0	.0	.0	1.6	.1	1.0	.4	.0	.0	.0	1.5
3-4	*	.4	.6	.1	.0	.0	1.1	*	.4	.4	.1	.0	.0	.8
5-6	.0	.1	.3	.1	.0	.0	.6	.0	.1	.1	*	.0	.0	.3
7	*	*	.1	.1	*	.0	.2	*	*	.1	*	.0	.0	.2
8-9	.0	*	*	*	.0	.0	.1	.0	*	*	*	.0	.0	.1
10-11	.0	.0	*	*	.0	.0	*	.0	*	*	*	.0	.0	*
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	.0	.0	.0	*
13-16	.0	.0	.0	*	.0	.0	*	.0	.0	*	.0	.0	.0	*
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.4	2.0	1.7	.3	*	.0	4.4	.4	2.1	1.1	.1	.0	.0	3.6

	W							NW							TOTAL
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	PCT
<1	.3	1.1	.1	.0	.0	.0	1.4	.4	1.6	.1	.0	.0	.0	2.2	
1-2	.3	2.7	1.1	.0	.0	.0	4.1	.4	5.6	4.8	.0	.0	.0	10.8	
3-4	*	1.2	1.5	.2	.0	.0	3.0	.1	3.2	9.0	1.8	.0	.0	14.2	
5-6	*	.3	.8	.2	.0	.0	1.3	*	.9	5.7	2.1	.1	.0	8.8	
7	.0	*	.5	.2	*	.0	.7	*	.2	3.1	1.9	.2	.0	5.5	
8-9	.0	*	.1	.1	*	.0	.2	.0	*	1.4	1.2	.1	.0	2.7	
10-11	.0	*	.1	.1	.0	.0	.2	.0	*	.4	.9	.1	.0	1.4	
12	.0	.0	.0	.0	.0	.0	.0	.0	*	.1	.3	.1	.0	.5	
13-16	.0	.0	*	*	.0	.0	*	.0	.0	*	.3	.1	.0	.4	
17-19	.0	.0	.0	0	*	.0	*	.0	.0	*	*	.1	.0	.1	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	*	.0	.0	*	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.6	5.4	4.2	.7	*	.0	11.0	.9	11.7	24.7	8.6	.7	.0	46.7	96.4

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	5.5	5.9	.3	.0	.0	.0	11.8	
1-2	1.7	15.3	9.7	.0	.0	.0	26.6	
3-4	.3	7.7	16.7	3.1	.0	.0	27.8	
5-6	*	2.0	10.3	3.4	.1	.0	15.9	
7	.1	.6	5.4	3.1	.3	.0	9.6	
8-9	.0	.2	2.1	1.9	.1	.0	4.4	
10-11	.0	.1	.8	1.4	.1	.0	2.4	
12	.0	*	.2	.4	.1	.0	.8	
13-16	.0	.0	.1	.6	.1	.0	.8	
17-19	.0	.0	.1	*	.1	.0	.2	
20-22	.0	.0	*	*	*	.0	*	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
								9428
TOT PCT	7.6	31.6	45.7	14.1	1.0	.0	100.0	

PERIOD: (OVER-ALL) 1949-1973

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	2.4	11.4	14.5	7.2	3.2	1.3	.5	.2	.1	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	7839	4
6-7	.1	1.7	6.2	7.8	5.2	2.8	1.4	.7	.4	.1	*	*	.0	.0	.0	.0	.0	.0	.0	5079	6
8-9	*	.8	2.5	2.9	3.4	2.4	1.5	.8	.7	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	2858	7
10-11	.0	.5	1.0	1.1	1.2	1.3	.8	.5	.5	.1	.1	*	*	.0	.0	.0	.0	.0	.0	1294	7
12-13	.0	.0	.6	.5	.4	.4	.3	.3	.2	.1	*	.0	*	.0	.0	.0	.0	.0	.0	528	8
>13	.0	.0	.0	.2	.3	.2	.2	.2	.2	*	*	*	.0	.0	.0	.0	.0	.0	.0	224	10
INDET	3.0	1.1	.9	.6	.3	.2	.1	.1	*	*	.0	*	.0	.0	.0	.0	.0	.0	.0	1189	2
TOTAL																				19011	5
PCT	5.6	15.5	25.7	20.3	14.0	8.5	4.9	2.6	2.2	.4	.2	*	*	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1936-1974
(OVER-ALL) 1854-1974

AREA 0034 POINT MUGU , V
34.0N 121.2W

TABLE 20

PERCENT FREQUENCY OF OCCURRENCE OF SEA TEMP (DEG F) BY MONTH

SEA TMP DEG F	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN	PCT
96+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
95/96	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
93/94	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
91/92	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
89/90	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
87/88	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
85/86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
83/84	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
81/82	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	2	*
79/80	.0	.0	.0	.0	.0	.0	.0	*	.0	.0	.0	.0	1	*
77/78	.0	.0	.0	.0	.0	.0	*	.1	.1	.0	.0	.0	8	*
75/76	.0	.0	.0	.0	*	.0	.1	.3	.1	.0	.0	*	18	*
73/74	.0	.0	*	.0	*	.1	.2	.3	.6	.1	.1	.1	51	.1
71/72	.1	.0	*	*	.0	.2	.5	.6	.9	.3	.0	.0	94	.2
69/70	.1	.0	.1	.1	.2	.1	1.2	1.6	2.1	1.0	.3	.1	251	.6
67/68	.1	.1	.1	.1	.2	.8	2.5	3.9	6.4	3.8	.8	.5	696	1.7
65/66	.2	.1	.2	.4	.6	1.9	4.3	7.3	10.7	12.0	2.4	.7	1479	3.5
63/64	.8	.4	.7	1.0	2.3	6.1	11.7	18.2	22.9	22.5	11.3	3.6	3678	8.8
61/62	3.0	1.8	2.3	2.7	6.1	10.2	18.8	21.1	22.5	23.6	21.2	11.4	5175	12.4
59/60	10.9	7.6	8.1	8.4	12.0	19.5	22.4	21.9	18.5	19.4	28.6	21.1	6985	16.7
57/58	24.5	22.4	20.8	19.8	22.8	24.4	18.8	15.2	9.6	11.5	19.7	28.0	8165	19.6
55/56	35.0	34.9	28.7	28.4	24.3	20.8	12.9	6.6	4.5	4.2	8.7	23.5	7889	18.9
53/54	17.9	22.3	23.6	22.8	18.8	11.2	5.0	1.9	1.0	1.2	4.3	8.1	4680	11.2
51/52	5.1	7.7	11.8	11.2	9.4	3.5	1.2	.7	.2	.3	1.0	1.9	1835	4.4
49/50	1.4	2.2	2.5	4.1	2.3	.8	.2	.1	*	.1	.4	.6	501	1.2
47/48	.9	.3	.7	.8	.9	.3	.0	*	.0	.0	.2	.2	143	.3
45/46	.2	.2	.2	.3	.2	.2	.1	*	.0	.0	.1	.1	54	.1
43/44	*	*	.1	.0	*	*	.0	.0	.0	.0	.0	*	7	*
41/42	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	*
39/40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
37/38	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
35/36	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
33/34	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
31/32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
29/30	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
27/28	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
<27	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
TOTAL	3176	3066	3459	3447	3512	3933	3930	3655	3460	3704	3571	2801	41714	100.0
MEAN	56.0	55.5	55.3	55.3	56.1	57.7	59.7	61.0	62.0	61.5	59.4	57.7	58.1	

TABLE 21

PRESSURE (MB)

AVERAGE BY HOUR (GMT)

MO	0000	0300	0600	0900	1200	1500	1800	2100	MEAN	TOTAL OBS
JAN	1019	1019	1020	1019	1020	1020	1021	1019	1020	3823
FEB	1019	1019	1019	1019	1019	1019	1020	1019	1019	3885
MAR	1018	1017	1019	1017	1018	1017	1019	1018	1018	4431
APR	1016	1016	1017	1017	1017	1017	1018	1017	1017	4709
MAY	1016	1015	1017	1015	1016	1016	1017	1016	1016	4645
JUN	1015	1014	1015	1014	1014	1015	1016	1015	1015	4886
JUL	1014	1014	1015	1014	1014	1014	1016	1015	1015	4750
AUG	1014	1014	1015	1014	1014	1014	1015	1015	1015	4248
SEP	1013	1013	1014	1013	1013	1014	1015	1014	1014	4051
OCT	1015	1016	1016	1016	1016	1016	1017	1016	1016	4286
NOV	1017	1018	1018	1018	1018	1018	1019	1018	1018	3996
DEC	1018	1018	1020	1018	1019	1018	1020	1018	1019	3224
ANN	1016	1016	1017	1016	1017	1017	1018	1017	1017	50934
OBS	8641	3502	6826	3794	6897	5095	9161	7018		

PERCENTILES

MO	MIN	1%	5%	25%	50%	75%	95%	99%	MAX
JAN	997	1005	1011	1017	1020	1023	1027	1029	1035
FEB	998	1005	1010	1016	1020	1022	1027	1030	1035
MAR	996	1004	1010	1015	1018	1021	1025	1028	1033
APR	996	1007	1011	1015	1017	1019	1023	1026	1032
MAY	997	1008	1011	1014	1016	1018	1022	1024	1029
JUN	994	1006	1009	1013	1015	1017	1020	1023	1027
JUL	996	1006	1009	1013	1015	1016	1019	1021	1027
AUG	1001	1006	1010	1013	1015	1017	1019	1021	1026
SEP	999	1006	1009	1012	1014	1016	1019	1021	1027
OCT	1000	1007	1010	1014	1016	1018	1021	1023	1031
NOV	997	1006	1011	1016	1018	1021	1024	1027	1032
DEC	999	1005	1010	1016	1019	1022	1026	1029	1034

JANUARY

PERIOD: (PRIMARY) 1937-1974
(OVER-ALL) 1857-1974

AREA 0035 SAN FRANCISCO
37.0N 123.5W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	.9	.7	.9	.0	.0	.0	.0	2.3	.8	.0	6.5	.3	2.7		.1	87.2
NE	1.5	.0	.5	.0	.0	.0	.0	2.0	.9	.0	11.7	.1	5.2		.0	80.2
E	3.3	.8	1.6	.0	.0	.0	.0	5.5	1.4	.0	11.4	.0	7.0		.0	74.7
SE	13.9	2.7	7.6	.0	.0	.0	.0	23.0	3.7	.0	14.5	.3	4.3		.0	53.9
S	12.7	4.3	9.7	.0	.0	.0	.2	25.9	5.0	.5	9.3	.5	2.1		.0	57.0
SW	8.1	3.8	6.0	.0	.0	.0	.1	17.7	4.3	.1	10.0	.5	2.4		.0	65.2
W	4.6	1.9	3.7	.0	.0	.0	.3	10.1	3.0	.2	7.3	.0	3.9		.0	75.8
NW	1.6	1.5	1.8	.0	.0	.0	.0	4.8	1.9	.2	6.8	.1	2.9		.0	83.4
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	.0
CALM	.6	.6	.0	.0	.0	.0	.0	1.2	3.0	.0	22.9	1.2	10.8		.0	60.8
TOT PCT	5.0	1.9	3.6	.0	.0	.0	.1	10.2	2.5	.2	9.3	.3	3.6		*	74.0
TOT OBS:	4537															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00&03	5.2	2.2	3.9	.0	.0	.0	.1	10.7	2.5	.2	9.2	.3	4.6		.1	72.6
06&09	5.8	1.5	4.1	.0	.0	.0	.0	10.8	2.9	.2	6.9	.2	2.2		.0	77.0
12&15	5.1	2.0	3.3	.0	.0	.0	.2	10.6	2.6	.2	10.2	.6	2.0		.0	73.9
18&21	3.8	1.8	3.3	.0	.0	.0	.0	8.6	2.0	.1	12.1	.0	5.6		.0	71.6
TOT PCT	5.0	1.9	3.6	.0	.0	.0	.1	10.2	2.5	.2	9.6	.3	3.6		*	73.8
TOT OBS:	4627															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	1.2	5.9	8.9	3.2	.5	.0		19.8	14.7	21.2	17.9	23.1	18.2	18.5	18.1	20.8	16.3
NE	.6	3.5	2.8	.5	*	.0		7.4	11.3	6.3	5.5	5.9	5.6	8.1	8.3	9.8	9.6
E	.8	3.0	2.0	.3	*	.0		6.1	10.0	4.6	4.3	5.1	5.4	4.9	7.1	9.9	8.4
SE	.8	2.8	2.9	1.2	.3	.0		8.0	13.7	7.2	8.9	6.9	7.8	7.3	10.1	8.6	9.8
S	1.0	4.3	6.0	2.5	.5	.0		14.3	14.9	15.5	13.2	13.5	14.8	14.5	16.8	12.2	15.2
SW	1.0	3.6	3.4	.9	.1	.0		9.1	12.1	8.1	9.7	8.6	9.4	10.0	11.6	8.3	8.8
W	1.1	3.9	3.9	.7	.0	.0		9.6	11.5	9.4	8.6	10.5	7.4	10.6	7.9	10.1	8.9
NW	1.1	7.4	9.6	3.2	.4	*		21.6	14.2	23.5	27.6	22.6	25.9	21.8	16.0	17.1	18.7
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	4.2							4.2	.0	4.1	4.5	3.9	5.4	4.3	4.1	3.4	4.3
TOT OBS	592	1739	1998	629	93	1	5052		12.8	964	403	862	349	933	343	736	462
TOT PCT	11.7	34.4	39.5	12.5	1.8	*		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	3.5	9.0	5.7	1.6	*		19.8	14.7	20.2	21.7	18.4	19.1
NE	1.8	4.2	1.3	.1	.0		7.4	11.3	6.1	5.8	8.2	9.7
E	1.9	3.3	.8	*	.0		6.1	10.0	4.5	5.2	5.5	9.3
SE	2.1	3.3	2.0	.5	.1		8.0	13.7	7.7	7.1	8.1	9.0
S	2.8	6.0	4.2	1.1	.2		14.3	14.9	14.8	13.9	15.1	13.4
SW	2.6	4.0	2.1	.3	*		9.1	12.1	8.6	8.8	10.4	8.5
W	2.4	4.9	2.0	.2	.0		9.6	11.5	9.2	9.6	9.9	9.6
NW	3.5	10.6	6.2	1.3	*		21.6	14.2	24.7	23.5	20.2	17.7
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	4.2						4.2	.0	4.2	4.4	4.2	3.8
TOT OBS	1253	2294	1223	262	21	5052		12.8	1367	1211	1276	1198
TOT PCT	24.8	45.4	24.2	5.2	.4		100.0		100.0	100.0	100.0	100.0

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	4.2	7.5	34.5	37.2	14.9	1.7	.0	12.9	100.0	1367
06&09	4.4	6.0	34.7	41.3	11.2	2.3	.1	13.1	100.0	1211
12&15	4.2	8.5	33.2	40.6	11.7	1.5	.0	12.6	100.0	1276
18&21	3.8	8.2	35.3	39.1	11.7	1.9	.0	12.7	100.0	1198
TOT	210	382	1739	1998	629	93	1	12.8		5052
PCT	4.2	7.6	34.4	39.5	12.5	1.8	*		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	8.3	3.6	5.4	3.7		3.8
NE	4.1	.9	1.3	1.3		3.0
E	2.6	.6	1.0	1.6		3.8
SE	1.0	.4	1.4	5.2		6.5
S	1.1	.8	2.9	9.6		6.8
SW	1.3	.8	2.4	4.2		6.1
W	2.3	1.3	3.4	3.0		5.1
NW	7.9	3.2	5.1	4.1		4.0
VAR	.0	.0	.0	.0		.0
CALM	1.6	.7	.6	1.2		4.0
TOT OBS	959	387	747	1065	3158	4.8
TOT PCT	30.4	12.3	23.7	33.7	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.5	*	.4	1.1	2.5	1.5	.5	.1	.1	.2	14.2	
NE	.3	*	.1	.2	.5	.4	.1	*	*	.2	5.8	
E	.1	.0	*	.2	.5	.3	.3	.1	.1	.2	4.1	
SE	.4	*	.3	.9	1.8	1.3	.5	.3	.1	.2	2.2	
S	.8	.2	.6	2.3	3.4	2.2	1.3	.4	*	.2	3.0	
SW	.3	.1	.2	.9	2.3	1.0	.5	*	.2	.1	3.1	
W	.4	.1	.2	.8	1.6	1.1	.6	*	*	.0	5.1	
NW	.5	.1	.4	1.2	2.9	1.3	.6	*	*	.1	13.1	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.4	*	.1	.3	.3	.2	.1	.1	.1	.1	2.5	
TOT OBS	114	20	74	233	500	287	141	32	19	38	1680	3158
TOT PCT	3.6	.6	2.3	8.0	15.8	9.1	4.5	1.0	.6	1.2	53.2	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM) * OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >50YD	* OR >0
* OR >6500	1.0	1.5	1.8	1.8	1.8	1.8	1.8	1.8
* OR >9000	1.4	2.5	2.8	2.8	2.8	2.8	2.8	2.8
* OR >3500	3.6	6.4	7.3	7.3	7.3	7.3	7.3	7.3
* OR >2000	8.6	14.9	16.2	16.3	16.4	16.4	16.4	16.4
* OR >1000	17.6	28.6	31.3	31.7	32.0	32.1	32.1	32.1
* OR >600	21.2	35.1	38.6	39.3	39.9	40.0	40.0	40.1
* OR >300	21.9	36.5	40.4	41.5	42.1	42.3	42.4	42.4
* OR >150	22.0	36.9	40.8	41.9	42.6	42.9	43.0	43.1
* OR > 0	22.2	37.6	42.0	43.5	44.6	45.3	46.3	46.6
TOTAL	706	1195	1335	1383	1419	1441	1472	1481

TOTAL NUMBER OF OBS: 3180

PCT FREQ NH <5/8: 53.4

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
24.0	7.5	9.8	6.7	5.1	5.4	7.0	7.3	24.1	3.0	3297

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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	PCP	*	.0	*	.1	.2	.2	*	.1	.0	.0	.6	
<1/2	NO PCP	.3	.2	.1	.3	.4	.2	.2	.4	.0	.4	2.5	
	TOT %	.3	.2	.1	.4	.6	.3	.3	.5	.0	.4	3.2	
	PCP	.0	.0	*	.1	.2	*	*	*	.0	.0	.4	
1/2<1	NO PCP	.4	.2	.2	.3	.4	.3	.2	.3	.0	.1	2.5	
	TOT %	.4	.2	.3	.4	.6	.4	.2	.4	.0	.1	2.9	
	PCP	*	*	.0	.2	.3	.1	.1	.0	.0	.0	.7	
1<2	NO PCP	.1	*	.1	.2	.2	.1	.1	.2	.0	.2	1.2	
	TOT %	.1	*	.1	.4	.5	.2	.2	.2	.0	.2	1.9	
	PCP	.1	.0	*	.4	1.0	.4	.2	.1	.0	.0	2.2	
2<5	NO PCP	.5	.2	.2	.5	.6	.3	.3	.4	.0	.5	3.5	
	TOT %	.6	.2	.2	.9	1.5	.7	.5	.5	.0	.5	5.7	
	PCP	.2	.1	.2	.9	1.7	.8	.5	.4	.0	*	4.8	
5<10	NO PCP	4.5	1.7	1.8	2.3	3.9	2.7	2.7	5.0	.0	1.0	25.7	
	TOT %	4.7	1.9	2.0	3.2	5.6	3.5	3.2	5.5	.0	1.0	30.5	
	PCP	.2	.0	.1	.2	.4	.1	.2	.4	.0	*	1.5	
10+	NO PCP	14.0	5.0	3.3	2.6	5.3	3.8	5.3	13.4	.0	1.5	54.3	
	TOT %	14.2	5.0	3.4	2.8	5.7	3.9	5.5	13.7	.0	1.5	55.8	
	TOT OBS												4530
	TOT PCT	20.4	7.6	6.1	8.1	14.5	9.0	9.8	20.8	.0	3.6	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	0-3	.1	*	*	*	.1	.1	*	.1	.0	.4	.9	
<1/2	4-10	.1	.1	*	.2	.3	.1	.2	.2	.0		1.2	
	11-21	.2	.1	.1	.2	.2	.1	.1	.2	.0		1.1	
	22+	.0	.0	.0	.0	*	.0	.0	*	.0		*	
	TOT %	.4	.2	.1	.4	.6	.4	.3	.5	.0	.4	3.2	
	0-3	.1	.0	.1	.1	.1	.1	.1	.1	.0	.1	.5	
1/2<1	4-10	.1	.2	.1	.1	.1	.1	.1	.1	.0		1.1	
	11-21	.1	*	.1	.1	.3	.2	*	.2	.0		1.0	
	22+	.1	.0	.0	.1	.1	*	.0	.1	.0		.4	
	TOT %	.4	.2	.3	.4	.6	.4	.2	.4	.0	.1	2.9	
	0-3	*	.0	*	.1	.1	*	.0	.0	.0	.1	.3	
1<2	4-10	.1	*	.1	*	.2	.1	.1	.1	.0		.6	
	11-21	*	*	*	.1	.2	.1	.1	.1	.0		.7	
	22+	.0	.0	.0	.2	.1	*	.0	.0	.0		.3	
	TOT %	.1	*	.1	.3	.6	.2	.2	.2	.0	.1	1.9	
	0-3	*	*	.1	.2	.1	.1	.1	*	.0	.5	1.1	
2<5	4-10	.3	.1	.1	.3	.4	.3	.3	.3	.0		2.0	
	11-21	.2	.1	.1	.2	.6	.2	.2	.2	.0		1.8	
	22+	.1	*	*	.2	.6	.1	.1	.1	.0		1.1	
	TOT %	.6	.2	.3	.9	1.7	.7	.6	.5	.0	.5	6.0	
	0-3	.4	.2	.2	.3	.5	.4	.4	.3	.0	1.0	3.6	
5<10	4-10	1.2	.8	.9	1.1	1.4	1.3	1.2	1.8	.0		9.6	
	11-21	2.3	.7	.7	1.0	2.2	1.1	1.2	2.2	.0		11.5	
	22+	.7	.1	.1	.6	1.3	.6	.2	1.1	.0		4.9	
	TOT %	4.6	1.8	1.9	3.1	5.4	3.4	3.1	5.4	.0	1.0	29.6	
	0-3	.6	.3	.4	.2	.2	.3	.4	.6	.0	2.0	4.9	
10+	4-10	4.0	2.2	1.7	1.0	2.1	1.8	2.2	4.5	.0		19.6	
	11-21	6.4	2.1	1.1	1.2	2.6	1.7	2.4	6.7	.0		24.0	
	22+	3.0	.4	.1	.4	.9	.3	.4	2.3	.0		7.9	
	TOT %	14.0	5.1	3.3	2.8	5.8	4.0	5.4	14.0	.0	2.0	56.4	
	TOT OBS												4753
	TOT PCT	20.1	7.5	6.0	8.0	14.6	9.1	9.7	21.0	.0	4.0	100.0	

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00&03	2.4	1.2	2.6	9.9	15.9	8.9	4.4	.6	1.2	1.4	48.6	51.4	832
06&09	2.4	.7	1.7	7.3	14.7	10.4	3.6	1.2	.3	1.3	43.6	56.4	865
12&15	5.0	.4	2.8	6.7	16.2	8.9	4.9	.9	.1	.9	47.0	53.0	773
18&21	4.4	.1	2.1	7.4	15.5	7.3	4.9	1.3	.7	1.0	44.7	55.3	769
TOT	114	20	75	254	503	289	144	32	19	38	1488	1751	3239
PCT	3.5	.6	2.3	7.8	15.5	8.9	4.4	1.0	.6	1.2	45.9	54.1	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00&03	3.2	3.5	1.6	6.7	32.4	52.5	1308
06&09	1.9	2.3	1.5	5.0	27.6	61.7	1183
12&15	4.2	2.7	2.1	6.3	29.2	55.6	1240
18&21	4.0	4.0	2.5	5.6	29.6	54.4	1113
TOT	161	151	93	287	1441	2711	4844
PCT	3.3	3.1	1.9	5.9	29.7	56.0	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET, NH >4/8), BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	2.4	8.1	22.6	29.6	47.8	818
06&09	2.6	5.9	17.5	28.7	53.9	848
12&15	5.0	9.2	20.7	28.7	50.7	760
18&21	4.5	8.9	20.8	27.5	51.7	754
TOT	114	253	647	910	1623	3180
PCT	3.6	8.0	20.3	28.6	51.0	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
70/74	.0	.0	*	*	.0	.0	.0	.0	2	.1
65/69	.0	.0	*	*	*	.2	.2	*	16	.5
60/64	.0	.1	.1	.2	.7	.9	.9	.6	108	3.5
55/59	.0	*	.1	.6	2.1	7.0	12.0	10.9	1013	32.8
50/54	.0	.3	.3	1.8	7.4	8.8	18.5	12.3	1526	49.4
45/49	.0	.2	.4	.9	1.3	2.4	3.6	3.3	373	12.1
40/44	.0	.0	.4	.3	.2	.2	.2	.3	46	1.5
35/39	.0	.0	.0	.1	.0	*	*	*	7	.2
TOTAL	0	16	42	122	364	601	1094	852	3091	100.0
PCT	.0	.5	1.4	3.9	11.8	19.4	35.4	27.6		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	*	*	.0	.0	.0	.0	*	.0	.0
.1	.1	*	.0	.1	*	.1	*	.0	.1
.8	.2	.1	.2	.7	.4	.5	.5	.0	.2
4.6	1.6	1.4	3.3	7.1	4.3	3.4	5.4	.0	1.7
12.9	3.4	2.2	3.4	5.5	3.5	4.8	12.2	.0	1.4
2.9	1.5	1.0	.8	.6	.4	1.0	3.2	.0	.6
.3	.6	.1	.1	*	*	.2	.2	.0	.0
*	.1	*	*	.0	.0	.0	*	.0	.0
21.7	7.5	4.9	7.8	14.0	8.6	9.9	21.5	.0	3.9

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00&03	74	64	60	54	48	43	40	54.0	1393
06&09	68	61	58	53	46	42	38	52.8	1227
12&15	71	60	58	52	45	42	38	52.2	1303
18&21	75	65	61	54	46	40	35	53.6	1200
TOT	75	63	59	53	46	41	35	53.2	5123

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00&03	.0	6.6	13.8	21.6	34.7	23.2	80	818
06&09	.0	4.1	11.4	16.6	37.9	30.0	83	809
12&15	.0	5.5	9.1	16.4	37.3	31.6	83	798
18&21	.0	7.1	12.9	23.6	31.4	25.0	80	704
TOT	0	181	369	608	1110	861	82	3129

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TABLE 17

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PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	33 36	37 40	41 44	45 48	49 52	53 56	57 60	61 64	65 68	69 72	73 76	TOT	W FOG	WO FOG
20/22	.0	.0	.0	.0	.0	.0	.0	*	.0	.0	.0	1	.0	*
17/19	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	*	2	.0	.1
14/16	.0	.0	.0	.0	.0	*	.0	.0	.1	*	*	5	.0	.1
11/13	.0	.0	.0	.0	.0	*	.2	*	.1	.1	.0	13	.0	.3
9/10	.0	.0	.0	.0	.0	*	.1	.2	.1	*	.0	18	.1	.4
7/8	.0	.0	.0	.0	*	.2	.3	.6	*	.0	.0	48	.1	1.1
6	.0	.0	.0	.0	.0	.2	.4	.3	*	.0	.0	37	*	.9
5	.0	.0	.0	.0	.1	.4	1.4	.4	*	.0	.0	88	.3	2.0
4	.0	.0	.0	.0	.2	.9	1.8	.3	.0	.0	.0	120	.3	2.8
3	.0	.0	.0	.0	.1	1.8	2.1	.1	.0	.0	.0	158	.5	3.6
2	.0	.0	.0	.1	.5	3.5	2.5	.1	.0	.0	.0	255	.7	5.9
1	.0	.0	.0	.0	.8	5.9	2.3	.2	.0	.0	.0	357	1.4	7.8
0	.0	.0	.0	.1	2.7	8.7	2.6	*	.0	.0	.0	543	1.8	12.7
-1	.0	.0	.0	.1	3.2	6.3	.8	.1	.0	.0	.0	403	1.1	9.3
-2	.0	.0	.0	.7	5.5	5.4	.8	.0	.0	.0	.0	479	1.4	11.0
-3	.0	.0	.0	.7	4.6	3.4	.2	.0	.0	.0	.0	344	.5	8.4
-4	.0	.0	.0	1.3	5.2	2.5	.3	.0	.0	.0	.0	356	.4	8.9
-5	.0	.0	.0	.8	3.5	1.2	.2	.0	.0	.0	.0	214	.2	5.4
-6	.0	.0	.1	1.2	1.9	.4	.1	.0	.0	.0	.0	141	.3	3.4
-7/-8	.0	.1	.3	1.5	1.7	.4	.1	.0	.0	.0	.0	152	.3	3.7
-9/-10	.0	.1	.3	.8	.5	.2	*	.0	.0	.0	.0	73	.1	1.8
-11/-13	.1	.2	.3	.2	.1	.1	.0	.0	.0	.0	.0	35	.1	.8
-14/-16	*	.0	.0	.1	.1	*	.0	.0	.0	.0	.0	8	.0	.2
-17/-19	.0	*	.0	*	*	.0	.0	.0	.0	.0	.0	3	.0	.1
TOTAL	3	15	39	291	1183	1598	614	90	13	5	2	3853	353	3500
PCT	.1	.4	1.0	7.6	30.7	41.5	15.9	2.3	.3	.1	.1	100.0	9.2	90.8

PERIOD: (OVER-ALL) 1963-1974

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	.8	.1	.0	.0	.0	1.1
1-2	.1	3.0	2.5	.0	.0	.0	5.5
3-4	.0	1.5	3.7	1.0	.0	.0	6.3
5-6	.1	.5	2.8	.9	.4	.0	4.7
7	.0	.0	1.5	.4	.1	.0	2.1
8-9	.0	.0	.4	.5	.2	.0	1.1
10-11	.0	.0	.4	.5	.2	.0	1.1
12	.0	.0	.1	.2	.0	.0	.2
13-16	.0	.0	.0	.3	.0	.0	.3
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.4	5.8	11.5	3.8	.8	.0	22.3

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	1.1	.1	.0	.0	.0	1.4
1-2	.1	1.5	.5	.0	.0	.0	2.0
3-4	.0	.6	.9	.5	.0	.0	2.0
5-6	.0	.1	.3	.2	.0	.0	.6
7	.0	.0	.3	*	.0	.0	.3
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	*	.0	.0	*
12	.0	.0	.0	.1	.0	.0	.1
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	3.4	2.0	.8	.0	.0	6.5

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.6	.3	.0	.0	.0	.9
1-2	.2	1.3	.9	.0	.0	.0	2.4
3-4	.1	.1	.5	.3	.0	.0	.9
5-6	.0	.0	.1	.0	.0	.0	.1
7	.0	.0	.1	.0	.0	.0	.1
8-9	.0	.0	.0	.2	.0	.0	.2
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	2.0	1.9	.5	.0	.0	4.6

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	*	.5	.0	.0	.0	.0	.6
1-2	.1	.7	.5	.0	.0	.0	1.3
3-4	*	.5	1.6	.5	.0	.0	2.6
5-6	.0	.1	.5	1.2	.0	.0	1.8
7	.0	.0	.3	.7	.1	.0	1.1
8-9	.0	.0	.2	*	.1	.0	.3
10-11	.0	.0	.2	*	.1	.0	.3
12	.0	.0	*	.0	.3	.0	.3
13-16	.0	.0	.0	.1	.0	.0	.1
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	1.8	3.3	2.6	.5	.0	8.3

JANUARY

PERIOD: (OVER-ALL) 1963-1974 AREA 0035 SAN FRANCISCO 37.0N 123.5W

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

	S							SW						
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.5	.2	.0	.0	.0	.7	.4	.5	.0	.0	.0	.0	.9
1-2	.1	1.2	1.6	.0	.0	.0	2.9	.1	.8	.8	.0	.0	.0	1.7
3-4	.0	.8	2.4	.5	.0	.0	3.7	.0	.6	1.3	.2	.0	.0	2.1
5-6	.1	.3	2.2	1.2	.1	.0	3.8	.0	.2	1.0	.3	.1	.0	1.5
7	.0	.0	1.1	.6	.0	.0	1.7	.0	.0	.5	.2	.0	.0	.8
8-9	.0	.0	.2	.6	.2	.0	1.0	.0	.0	.1	.4	.0	.0	.5
10-11	.0	.0	.2	.4	.1	.0	.7	.0	.0	.1	.2	.0	.0	.3
12	.0	.0	.1	.1	.1	.0	.3	.0	.0	.0	.1	.1	.0	.2
13-16	.0	.0	.0	.1	.1	.0	.2	.0	.0	.1	.1	*	.0	.2
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	2.7	8.1	3.4	.5	.0	14.9	.5	2.1	4.0	1.4	.2	.0	8.2

	W							NW							TOTAL
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	PCT
<1	.0	.5	.1	.0	.0	.0	.5	.1	1.9	.1	.0	.0	.0	1.5	
1-2	.1	1.8	.8	.0	.0	.0	2.7	.3	3.0	2.5	.0	.0	.0	5.8	
3-4	.0	1.0	.9	.2	.0	.0	2.0	.2	1.9	3.1	.8	.0	.0	5.9	
5-6	.0	.5	.7	.2	.0	.0	1.3	*	.1	3.4	.8	.2	.0	4.4	
7	.0	.2	.7	.2	.0	.0	1.1	.0	.4	1.0	.6	.1	.0	2.0	
8-9	.0	.1	.6	.0	.0	.0	.7	.1	*	.6	.9	.0	.0	1.6	
10-11	.0	.0	.0	.2	.0	.0	.2	.0	.0	.4	.6	*	.0	.9	
12	.0	.0	.0	.1	.0	.0	.1	.0	.0	.2	.2	.0	.0	.4	
13-16	.0	.0	.1	.0	.0	.0	.1	.0	.0	.1	.2	.0	.0	.3	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.1	4.0	3.8	.8	.0	.0	8.7	.6	6.8	11.3	4.0	.3	.0	22.9	96.6

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	4.5	5.9	.8	.0	.0	.0	11.2	
1-2	.9	13.2	10.1	.0	.0	.0	24.3	
3-4	.3	7.0	14.3	3.9	.0	.0	25.5	
5-6	.2	1.7	10.9	4.7	.8	.0	18.3	
7	.0	.6	5.5	2.7	.3	.0	9.1	
8-9	.1	.1	2.1	2.6	.4	.0	5.3	
10-11	.0	.0	1.3	2.0	.3	.0	3.6	
12	.0	.0	.4	.7	.4	.0	1.5	
13-16	.0	.0	.3	.8	.1	.0	1.1	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	6.0	28.6	45.8	17.3	2.3	.0	100.0	1165

PERIOD: (OVER-ALL) 1949-1974

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	1.5	6.9	14.0	7.7	3.0	1.5	.7	.1	.2	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	922	4
6-7	.5	2.7	4.9	8.1	5.3	3.6	1.8	.9	.8	.1	*	.0	.0	.0	.0	.0	.0	.0	.0	747	6
8-9	*	.9	2.1	2.5	3.8	2.1	2.0	.9	.8	.4	*	.0	.0	.0	.0	.0	.0	.0	.0	401	7
10-11	.0	.5	.5	1.3	1.6	1.5	1.0	.7	.7	.2	*	.0	.0	.0	.0	.0	.0	.0	.0	209	8
12-13	.0	.0	.6	.3	.5	.5	.4	.4	.9	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	100	10
>13	.0	.0	.0	.3	.5	.3	.3	.3	.2	*	*	.0	.0	.0	.0	.0	.0	.0	.0	53	9
INDET	2.2	1.3	.8	.8	.5	.4	*	.2	.1	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	169	3
TOTAL	111	318	594	547	397	257	161	89	96	23	8	0	0	0	0	0	0	0	0	2601	6
PCT	4.3	12.2	22.8	21.0	15.3	9.9	6.2	3.4	3.7	.9	.3	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

FEBRUARY

PERIOD: (PRIMARY) 1940-1974
(OVER-ALL) 1860-1974

AREA 0035 SAN FRANCISCO
37.0N 123.6W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	.5	.4	.9	.0	.0	.0	.1	1.9	.6	.0	6.9	.2	5.7	.0		84.7
NE	2.4	.0	1.6	.0	.0	.0	.0	3.9	.3	.3	10.4	.7	4.1	.0		80.4
E	5.1	.8	4.9	.0	.0	.0	.0	10.8	1.8	.3	8.2	.5	4.9	.5		72.9
SE	11.2	1.4	4.7	.0	.0	.0	.0	17.0	3.1	.0	11.3	.7	5.4	.1		62.5
S	9.4	2.3	6.0	.0	.0	.0	.0	17.5	3.2	.0	12.5	.8	2.6	.0		63.3
SW	7.0	1.9	2.2	.0	.0	.0	.0	10.9	3.8	.6	9.9	.9	3.0	.0		70.9
W	2.0	2.2	2.1	.0	.0	.0	.0	5.9	2.6	.0	9.4	.6	3.6	.2		77.7
NW	.6	.4	1.4	.0	.0	.0	.0	2.2	1.2	.1	9.3	.5	3.1	.2		83.5
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0
CALM	.0	.0	2.0	.0	.0	.0	.0	2.0	.0	.0	17.2	.0	26.3	.0		54.5
TOT PCT	3.3	1.0	2.4	.0	.0	.0	*	6.6	1.7	.1	9.8	.5	5.1	.1		76.1
TOT OBS:	4044															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00&03	3.1	1.5	2.0	.0	.0	.0	.0	6.4	1.3	.1	9.6	.5	5.8	.2		76.1
06&09	3.3	.7	2.8	.0	.0	.0	.1	6.6	2.1	.3	8.9	.5	4.9	.1		76.7
12&15	3.8	.9	3.1	.0	.0	.0	.0	7.6	1.5	.0	11.1	.6	3.7	.1		75.3
18&21	3.1	.9	1.9	.0	.0	.0	.0	6.0	1.9	.0	9.8	.4	5.9	.0		76.0
TOT PCT	3.3	1.0	2.5	.0	.0	.0	*	6.6	1.7	.1	9.9	.5	5.0	.1		76.0
TOT OBS:	4121															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	1.3	6.9	8.5	4.3	.6	.0		21.5	15.1	21.2	20.0	24.7	20.0	21.3	21.1	20.4	21.4
NE	.6	2.5	1.5	.4	.0	.0		4.9	10.3	2.8	5.7	3.1	5.5	5.2	8.4	6.2	5.8
E	.4	2.1	1.2	.1	.0	.0		3.8	9.5	2.2	3.8	1.8	4.2	4.5	4.5	6.2	4.2
SE	.5	3.1	2.8	1.0	.2	.0		7.5	13.5	7.0	6.4	6.8	6.6	6.1	9.2	10.2	8.4
S	.8	3.9	5.0	1.8	.3	.0		11.7	14.2	13.0	7.7	13.6	9.4	11.9	10.2	10.6	13.4
SW	.6	3.9	2.9	.6	.2	.0		8.2	11.9	8.7	8.8	6.8	9.0	7.7	10.3	7.6	9.9
W	1.1	4.9	3.8	1.1	.1	.0		11.1	11.8	11.8	10.8	10.4	12.5	10.3	11.0	11.3	11.5
NW	1.3	8.3	11.7	4.4	.5	.0		26.2	14.6	29.2	32.4	27.8	26.6	26.9	19.7	22.7	20.5
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	5.1							5.1	.0	4.2	4.4	5.0	6.2	6.0	5.7	4.8	4.8
TOT OBS	522	1586	1662	608	88	0	4466		12.9	812	317	796	305	878	300	706	352
TOT PCT	11.7	35.5	37.2	13.6	2.0	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	3.7	9.6	6.2	1.9	.1		21.5	15.1	20.8	23.4	21.3	20.7
NE	1.7	2.4	.7	.1	.0		4.9	10.3	3.6	3.7	6.0	6.1
E	1.2	2.1	.4	*	.0		3.8	9.5	2.6	2.5	4.5	5.6
SE	1.7	3.5	1.8	.5	*		7.5	13.5	6.8	6.8	6.9	9.6
S	2.2	5.6	3.3	.6	*		11.7	14.2	11.5	12.4	11.4	11.5
SW	2.1	4.2	1.6	.2	.1		8.2	11.9	8.7	7.4	8.4	8.4
W	3.0	5.5	2.2	.5	.0		11.1	11.8	11.5	11.0	10.5	11.4
NW	4.3	12.4	7.5	1.9	*		26.2	14.6	30.1	27.4	25.0	22.0
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	5.1						5.1	.0	4.3	5.4	5.9	4.8
TOT OBS	1118	2024	1052	260	12	4466		12.9	1129	1101	1178	1058
TOT PCT	25.0	45.3	23.6	5.8	.3		100.0		100.0	100.0	100.0	100.0

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	4.3	5.8	34.7	38.5	15.0	1.8	.0	13.3	100.0	1129
06&09	5.4	5.4	34.2	38.8	14.0	2.3	.0	13.2	100.0	1101
12&15	5.9	7.3	36.8	35.2	12.6	2.1	.0	12.5	100.0	1178
18&21	4.8	7.8	36.3	36.4	12.9	1.7	.0	12.6	100.0	1058
TOT	228	294	1586	1662	608	88	0	12.9		4466
PCT	5.1	6.6	35.5	37.2	13.6	2.0	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	10.0	3.4	5.3	3.9		3.6
NE	1.8	.4	.9	1.3		4.2
E	1.0	.3	1.2	1.3		5.0
SE	1.0	.6	2.1	3.7		6.1
S	1.3	1.2	2.8	6.3		6.3
SW	1.3	.9	1.8	3.4		5.7
W	2.9	1.9	3.3	3.0		4.9
NW	9.6	4.5	6.3	5.2		4.0
VAR	.0	.0	.0	.0		.0
CALM	2.5	.5	1.2	1.6		4.0
TOT OBS	931	405	736	883	2955	4.6
TOT PCT	31.5	13.7	24.9	29.9	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.7	.1	.3	1.8	2.1	1.3	.2	.1	*	.2	15.6	
NE	.1	.0	.1	.1	.6	.6	*	.0	.1	.1	2.8	
E	.1	.0	*	.2	.5	.4	.1	.1	*	.2	2.2	
SE	.4	.1	.2	.8	1.4	1.0	.4	.1	.1	.2	2.7	
S	.9	.1	.6	1.6	2.0	1.4	.5	.2	.2	.2	4.1	
SW	.4	.1	.1	.5	1.4	1.0	.3	.1	*	.2	3.3	
W	.6	.0	.1	.5	1.8	1.4	.1	*	.1	.1	6.2	
NW	.9	.1	.5	1.6	3.5	1.8	.2	*	.1	.1	16.7	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.5	.0	*	*	.5	.5	.1	*	.2	.1	3.9	
TOT OBS	139	16	61	215	404	276	57	20	21	40	1706	2955
TOT PCT	4.7	.5	2.1	7.3	13.7	9.3	1.9	.7	.7	1.4	57.7	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM) * OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >50YD	* OR >0
* OR >6500	.8	1.9	2.0	2.0	2.0	2.0	2.0	2.0
* OR >5000	1.3	2.5	2.7	2.7	2.7	2.7	2.8	2.8
* OR >3500	2.6	4.4	4.6	4.6	4.6	4.6	4.7	4.7
* OR >2000	8.6	13.3	14.0	14.1	14.1	14.1	14.2	14.2
* OR >1000	16.8	25.6	27.1	27.5	27.6	27.7	27.7	27.7
* OR >600	20.8	32.2	34.1	34.6	34.7	34.8	34.8	34.8
* OR >300	21.5	33.7	35.9	36.5	36.7	36.9	36.9	36.9
* OR >150	21.7	34.0	36.3	37.0	37.2	37.4	37.4	37.4
* OR > 0	21.8	34.5	37.2	38.4	39.2	40.1	41.7	42.1
TOTAL	652	1035	1115	1149	1175	1201	1248	1260

TOTAL NUMBER OF OBS: 2996

PCT FREQ NH <5/8: 57.9

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
24.4	7.2	11.0	8.1	6.5	4.9	8.6	6.4	19.1	3.9	3110

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TABLE 8.

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PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	PCP	.1	.0	*	.1	.1	*	*	*	.0	.0	.3	
<1/2	NO PCP	.5	.2	.1	.2	.5	.3	.3	.6	.0	.3	2.9	
	TOT %	.6	.2	.2	.3	.6	.3	.3	.6	.0	.3	3.2	
	PCP	*	.0	*	.1	.1	.0	.0	*	.0	.0	.2	
1/2<1	NO PCP	.3	.2	.1	.1	.3	.2	.2	.6	.0	.1	2.2	
	TOT %	.4	.2	.1	.2	.4	.2	.2	.6	.0	.1	2.5	
	PCP	*	*	.0	.2	.1	*	.1	.1	.0	*	.6	
1<2	NO PCP	.2	*	*	.1	.2	.2	.1	.2	.0	.2	1.2	
	TOT %	.2	.1	*	.2	.3	.2	.2	.3	.0	.2	1.8	
	PCP	*	*	*	.2	.5	.2	.1	*	.0	*	1.2	
2<5	NO PCP	1.2	.1	.1	.3	.6	.3	.4	1.3	.0	.7	5.0	
	TOT %	1.2	.2	.1	.6	1.1	.5	.5	1.3	.0	.7	6.2	
	PCP	.3	.1	.3	.5	1.2	.5	.3	.2	.0	.0	3.4	
5<10	NO PCP	3.9	1.0	.8	2.2	2.7	1.9	2.8	4.7	.0	1.8	21.8	
	TOT %	4.2	1.1	1.1	2.7	3.8	2.4	3.1	5.0	.0	1.8	25.2	
	PCP	*	*	*	.2	.2	.1	.1	.1	.0	*	.8	
10+	NO PCP	15.6	3.0	2.2	3.2	5.7	4.4	6.6	17.9	.0	1.8	60.4	
	TOT %	15.6	3.0	2.2	3.4	5.9	4.5	6.7	18.1	.0	1.8	61.2	
	TOT OBS												4037
	TOT PCT	22.1	4.7	3.8	7.5	12.0	8.0	11.1	25.9	.0	4.9	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	0-3	.1	*	*	.1	*	*	*	.1	.0	.3	.7	
<1/2	4-10	.3	.1	*	.1	.2	.1	.1	.2	.0		1.2	
	11-21	.1	*	.1	.1	.2	.1	.1	.3	.0		1.1	
	22+	*	.0	.0	*	*	*	.1	*	.0		.2	
	TOT %	.5	.2	.1	.3	.5	.3	.3	.6	.0	.3	3.2	
	0-3	*	*	*	*	*	*	*	.1	.0	.1	.4	
1/2<1	4-10	.2	.1	.1	.1	.1	.1	.1	.2	.0		1.0	
	11-21	.1	.1	*	.1	.2	.0	.1	.2	.0		.9	
	22+	.0	.0	.0	*	.0	*	.0	*	.0		.1	
	TOT %	.3	.2	.1	.2	.4	.2	.2	.6	.0	.1	2.4	
	0-3	*	.0	.0	.0	*	*	*	*	.0	.2	.4	
1<2	4-10	.1	*	*	.1	.1	*	.1	.2	.0		.7	
	11-21	*	*	*	.1	.2	.1	.1	.1	.0		.7	
	22+	.0	.0	.0	.1	*	*	.0	*	.0		.1	
	TOT %	.2	.1	*	.2	.3	.2	.3	.4	.0	.2	1.9	
	0-3	.3	*	.0	.2	.1	.1	.1	.3	.0	.7	1.7	
2<5	4-10	.6	*	.1	.1	.2	.3	.2	.6	.0		2.1	
	11-21	.2	.1	.1	.2	.5	.1	.1	.4	.0		1.6	
	22+	.1	*	*	.2	.4	.1	.1	.1	.0		1.0	
	TOT %	1.2	.2	.1	.6	1.2	.5	.5	1.3	.0	.7	6.3	
	0-3	.3	.1	.1	.1	.2	.1	.4	.2	.0	1.8	3.2	
5<10	4-10	1.3	.6	.5	1.2	1.2	1.2	1.5	1.5	.0		9.0	
	11-21	1.7	.3	.4	.9	1.4	.7	.9	2.3	.0		8.6	
	22+	.9	.1	.1	.4	1.0	.3	.2	1.0	.0		3.9	
	TOT %	4.2	1.1	1.1	2.6	3.7	2.4	3.0	5.0	.0	1.8	24.8	
	0-3	.6	.3	.3	.1	.3	.2	.4	.7	.0	2.0	5.1	
10+	4-10	4.3	1.7	1.4	1.4	2.1	1.8	2.8	5.1	.0		20.7	
	11-21	6.6	.9	.6	1.5	2.5	1.9	2.5	8.4	.0		24.9	
	22+	4.0	.3	*	.5	.7	.4	.9	3.8	.0		10.6	
	TOT %	15.5	3.2	2.3	3.5	5.7	4.4	6.6	18.0	.0	2.0	61.3	
	TOT OBS												4232
	TOT PCT	21.9	4.9	3.8	7.5	11.9	8.0	10.9	25.9	.0	5.2	100.0	

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00&03	3.7	.6	2.1	7.7	13.1	8.3	1.5	1.1	1.4	2.5	41.8	58.2	727
06&09	4.1	.6	1.9	5.3	12.0	10.5	1.5	.7	.5	1.0	38.0	62.0	810
12&15	5.6	.4	1.8	7.1	15.1	8.4	2.5	.4	.1	.5	41.9	58.1	763
18&21	4.8	.5	2.4	8.3	13.6	10.1	2.0	.7	.9	1.3	44.8	55.2	743
TOT	139	16	62	215	408	284	57	22	22	40	1265	1778	3043
PCT	4.6	.5	2.0	7.1	13.4	9.3	1.9	.7	.7	1.3	41.6	58.4	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00&03	3.2	3.3	1.5	5.8	26.9	59.2	1078
06&09	3.3	2.7	1.8	5.2	23.6	63.4	1083
12&15	4.2	1.6	2.6	7.0	24.8	59.8	1145
18&21	2.5	2.3	1.7	6.8	23.7	63.0	1003
TOT	144	106	82	267	1068	2642	4309
PCT	3.3	2.5	1.9	6.2	24.8	61.3	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET, NH >4/8), BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <3	1000+ AND3+	NH <5/8 AND 5+	TOTAL OBS
00&03	5.8	7.1	19.9	26.0	54.1	719
06&09	4.2	8.1	17.9	25.4	56.7	795
12&15	5.8	9.0	22.4	25.1	52.5	745
18&21	4.7	8.8	24.2	25.9	49.9	737
TOT	138	247	630	767	1599	2996
PCT	4.6	8.2	21.0	25.6	53.4	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
75/79	.0	.0	.0	*	.0	.0	.0	.0	1	*
70/76	.0	.0	.0	.1	.1	.0	*	.0	5	.2
65/69	.0	.0	.1	.2	.1	.1	.1	.1	18	.6
60/64	.0	.1	*	.4	.8	1.5	1.0	.4	122	4.2
55/59	.0	*	.3	.7	2.1	7.4	12.7	7.5	903	30.7
50/54	.0	.1	.2	1.1	4.9	10.7	21.2	13.9	1527	52.0
45/49	.0	.0	.1	.4	1.2	2.7	3.7	3.9	350	11.9
40/44	.0	.0	.0	*	*	.1	*	.1	10	.3
35/39	.0	.0	.0	.0	.0	.0	.0	*	1	*
TOTAL	0	5	18	86	269	662	1138	759	2937	100.0
PCT	.0	.2	.6	2.9	9.2	22.5	38.7	25.8		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
*	.0	.0	.0	.0	.0	.0	.0	.0	.0
*	*	*	.0	.0	.0	*	.0	.0	.1
.1	.0	.0	.0	.1	*	.1	.2	.0	.1
.6	.1	.2	.3	.9	.4	.4	.9	.0	.4
4.8	1.0	1.5	3.6	6.0	3.2	2.8	6.0	.0	1.7
13.9	2.4	1.6	2.9	4.1	3.3	5.6	16.3	.0	1.9
3.3	.6	.4	.4	.6	.5	1.8	4.1	.0	.3
.2	.1	.0	.0	*	.0	.0	.1	.0	.0
*	.0	.0	.0	.0	.0	.0	*	.0	.0
23.1	4.2	3.6	7.1	11.8	7.4	10.7	27.5	.0	4.5

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00&03	75	65	61	54	49	46	37	54.5	1139
06&09	64	60	58	53	48	45	39	52.9	1118
12&15	64	60	57	52	47	44	34	52.3	1196
18&21	73	66	61	54	48	45	32	54.1	1070
TOT	75	64	59	53	48	45	32	53.4	4523

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00&03	.0	4.9	11.7	27.0	33.6	22.7	80	749
06&09	.0	1.0	6.0	19.6	44.8	28.5	85	765
12&15	.0	2.8	5.3	17.5	42.7	31.8	85	790
18&21	.0	6.4	13.7	26.3	32.9	20.7	80	691
TOT	0	111	271	672	1159	782	82	2995

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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA	29	33	37	41	45	49	53	57	61	65	69	73	TOT	W	WO
TMP DIF	32	36	40	44	48	52	56	60	64	68	72	76		FOG	FOG
17/19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	2	.0	.1
14/16	.0	.0	.0	.0	.0	.0	.0	*	*	.1	.1	.0	8	.0	.2
11/13	.0	.0	.0	.0	.0	.0	.1	*	.1	.2	*	.0	13	.0	.4
9/10	.0	.0	.0	.0	.0	*	.0	.1	.3	*	*	.0	19	.0	.5
7/8	.0	.0	.0	.0	.0	.1	.2	.5	.4	.1	.0	.0	46	.2	1.1
6	.0	.0	.0	.0	*	.0	.3	.5	.2	.0	.0	.0	37	.1	.9
5	.0	.0	.0	.0	.0	.1	.8	1.3	.4	.0	.0	.0	91	.4	2.1
4	.0	.0	.0	.0	.0	.1	1.5	1.9	.2	.0	.0	.0	136	.4	3.3
3	.0	.0	.0	.0	*	.1	1.5	2.3	*	.0	.0	.0	140	.4	3.5
2	.0	.0	.0	.0	.1	.8	4.1	3.2	.1	*	.0	.0	297	.9	7.3
1	.0	.0	.0	.0	.1	1.1	5.6	2.0	.1	.0	.0	.0	321	1.2	7.7
0	.0	.0	.0	.0	.1	3.5	9.1	1.7	*	.0	.0	.0	523	1.2	13.2
-1	.0	.0	.0	.0	.2	4.6	7.1	.7	.0	.0	.0	.0	456	1.2	11.4
-2	.0	.0	.0	.0	.9	6.7	5.4	.5	*	.0	.0	.0	492	1.5	12.1
-3	.0	.0	.0	.0	1.1	5.5	2.5	.2	.0	.0	.0	.0	333	1.1	8.1
-4	.0	.0	.0	.0	1.1	4.6	1.3	.1	*	.0	.0	.0	261	.8	6.4
-5	.0	*	.0	.0	1.2	2.7	.9	.1	*	.0	.0	.0	179	.4	4.5
-6	.0	.0	.0	.1	.7	1.5	.4	.1	.0	.0	.0	.0	97	.1	2.6
-7/-8	.0	.0	.0	.1	.7	1.5	.2	.1	.0	.0	.0	.0	90	*	2.5
-9/-10	*	.0	.0	.1	.4	.5	.3	*	.0	.0	.0	.0	47	.2	1.1
-11/-13	.0	.0	*	.1	.2	.2	.1	.0	.0	.0	.0	.0	22	.1	.5
-14/-16	.0	.0	.0	.0	*	.1	.1	.0	.0	.0	.0	.0	5	.0	.1
-17/-19	.0	.0	.0	.0	.0	*	.0	.0	.0	.0	.0	.0	1	.0	*
-20/-22	.0	.0	.0	.0	.0	*	.0	.0	.0	.0	.0	.0	1	.0	*
TOTAL	1		1		241		1494		72		5			370	3247
		1		13		1216		558		13		2	3617		
PCT	*	*	*	.4	6.7	33.6	41.3	15.4	2.0	.4	.1	.1	100.0	10.2	89.8

PERIOD: (OVER-ALL) 1963-1974

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.6	1.5	.1	.0	.0	.0	2.1
1-2	.2	2.6	1.3	.0	.0	.0	4.0
3-4	.1	1.5	3.0	.5	.0	.0	5.1
5-6	.0	.7	2.5	.8	.0	.0	4.1
7	.0	.2	1.1	1.8	.1	.0	3.1
8-9	.0	.1	.3	.9	.1	.0	1.5
10-11	.0	.0	.1	.4	.2	.0	.6
12	.0	.0	.1	.2	.1	.0	.4
13-16	.0	.0	.0	.3	.5	.0	.8
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.8	6.6	8.5	4.9	1.0	.0	21.7

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	.8	.3	.0	.0	.0	1.3
1-2	.1	1.1	.5	.0	.0	.0	1.6
3-4	.0	.6	1.1	.1	.0	.0	1.8
5-6	.0	*	.1	.2	.0	.0	.3
7	.0	.0	.1	*	.0	.0	.2
8-9	.0	.0	.0	.2	.0	.0	.2
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	2.5	2.2	.5	.0	.0	5.5

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.3	.2	.0	.0	.0	1.5
1-2	.1	.9	1.1	.0	.0	.0	2.2
3-4	.0	.5	.4	.0	.0	.0	1.0
5-6	.0	.0	.2	.1	.0	.0	.3
7	.0	.0	.1	.0	.0	.0	.1
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.1	2.8	2.0	.1	.0	.0	5.1

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.6	.1	.0	.0	.0	.8
1-2	.2	1.1	.8	.0	.0	.0	2.1
3-4	.0	1.0	1.2	.4	.0	.0	2.6
5-6	.0	*	.9	.6	.1	.0	1.6
7	.1	.0	.5	.1	.0	.0	.6
8-9	.0	.0	*	.1	.0	.0	.1
10-11	.0	.0	.2	.2	.1	.0	.5
12	.0	.0	*	.2	.0	.0	.2
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	2.8	3.6	1.5	.2	.0	8.5

PERIOD: (OVER-ALL) 1963-1974

FEBRUARY

TABLE 18 (CONT)

AREA 0035 SAN FRANCISCO 37.0N 123.6W

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

S

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	1.0	.3	.0	.0	.0	1.5
1-2	.1	1.7	1.1	.0	.0	.0	2.9
3-4	.0	1.0	1.6	.5	.0	.0	3.1
5-6	.0	.3	.8	.2	.1	.0	1.5
7	.0	.1	.5	.2	.0	.0	.8
8-9	.0	.0	.1	.3	.0	.0	.5
10-11	.0	.1	.0	.1	.1	.0	.3
12	.0	.0	.1	.0	.1	.0	.1
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	4.1	4.5	1.4	.4	.0	10.7

SW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	.9	.2	.0	.0	.0	1.4
1-2	.5	1.1	.4	.0	.0	.0	2.0
3-4	.0	.6	.5	.1	.0	.0	1.2
5-6	.0	.5	.6	.2	.1	.0	1.4
7	.0	.1	.4	*	.0	.0	.5
8-9	.0	.0	.2	.1	.1	.0	.4
10-11	.0	*	.1	.3	.0	.0	.4
12	.0	.0	.0	.1	.0	.0	.1
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.8	3.1	2.4	.8	.2	.0	7.4

W

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	1.0	.2	.0	.0	.0	1.3
1-2	.2	2.2	.4	.0	.0	.0	2.8
3-4	.1	.7	.9	.2	.0	.0	1.9
5-6	.0	.3	1.2	.4	.1	.0	1.9
7	.1	.0	.3	.1	.0	.0	.5
8-9	.0	.0	.0	.2	.0	.0	.2
10-11	.0	.0	.1	.1	.0	.0	.2
12	.0	.0	.0	.1	.0	.0	.1
13-16	.0	.0	.0	.1	.1	.0	.1
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.5	4.2	3.0	1.3	.1	.0	9.1

NW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.1	2.6	.7	.0	.0	.0	3.4	
1-2	.5	2.3	2.3	.0	.0	.0	5.2	
3-4	*	.9	4.7	.9	.0	.0	6.6	
5-6	.0	1.0	3.2	1.0	.1	.0	5.4	
7	.0	.1	1.5	1.4	.3	.0	3.3	
8-9	.0	.1	.4	.8	*	.0	1.3	
10-11	.0	.0	.4	.4	.0	.0	.8	
12	.0	.0	.2	.3	.3	.0	.7	
13-16	.0	.0	.0	.5	.3	.0	.8	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.6	7.0	13.5	5.2	1.0	.0	27.4	95.4

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	6.0	9.8	2.1	.0	.0	.0	17.8	
1-2	2.0	13.2	7.8	.0	.0	.0	23.0	
3-4	.2	6.9	13.4	2.8	.0	.0	23.3	
5-6	.1	2.8	9.7	3.5	.5	.0	16.6	
7	.2	.4	4.4	3.7	.4	.0	9.1	
8-9	.0	.3	1.1	2.6	.3	.0	4.2	
10-11	.0	.1	.8	1.5	.4	.0	2.8	
12	.0	.0	.3	.8	.4	.0	1.6	
13-16	.0	.0	.0	.8	.8	.0	1.7	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	8.4	33.4	39.7	15.7	2.8	.0	100.0	1200

PERIOD: (OVER-ALL) 1949-1974

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	1.8	8.8	12.4	7.1	2.8	.8	.6	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	872	4
6-7	.1	1.5	6.3	7.1	5.8	2.4	1.8	.8	.7	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	666	6
8-9	.0	.5	1.7	2.5	5.3	2.8	2.7	1.3	1.3	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	457	8
10-11	.0	.5	.8	.9	1.5	1.6	1.2	.6	.8	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	200	9
12-13	.0	.0	.7	.3	.4	.4	.6	.4	.6	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	94	9
>13	.0	.0	.0	.2	*	.4	.3	.1	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	34	10
INDET	3.4	1.3	.6	.4	.7	.4	*	.2	.1	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	185	3
TOTAL	134	317	566	466	412	223	182	89	97	17	5	0	0	0	0	0	0	0	0	2508	6
PCT	5.3	12.6	22.6	18.6	16.4	8.9	7.3	3.5	3.9	.7	.2	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

MARCH

PERIOD: (PRIMARY) 1941-1974
(OVER-ALL) 1860-1974

AREA 0035 SAN FRANCISCO
37.0N 123.7W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	.1	.4	.7	.0	.0	.0	.0	1.3	1.1	.0	2.7	.0	2.7		.1	92.1
NE	1.8	.5	.3	.0	.0	.0	.0	2.5	1.0	.0	3.5	.0	3.0		.0	90.0
E	6.4	.0	1.4	.0	.0	.0	.0	7.8	1.1	.0	12.4	.0	2.5		.0	76.3
SE	20.0	1.8	12.6	.0	.0	.0	.0	25.9	2.7	.0	8.7	.1	1.9		.0	60.7
S	11.2	2.7	11.0	.0	.0	.0	.0	22.1	4.7	.2	10.0	.2	1.4		.0	71.4
SW	6.2	4.6	7.6	.0	.0	.0	.0	17.4	4.1	.0	8.6	.0	1.5		.0	68.3
W	2.3	1.7	3.1	.0	.0	.0	.0	6.4	3.5	.0	6.3	.2	2.2		.0	81.2
NW	.8	.6	.7	.0	.0	.0	.1	2.2	1.4	.0	3.5	*	3.6		.0	89.3
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	.0
CALM	.8	.0	.8	.0	.0	.0	.0	1.6	.8	.0	7.2	.0	5.6		.0	84.8
TOT PCT	3.4	1.3	3.2	.0	.0	.0	*	7.0	2.2	*	5.3	.1	2.8		*	82.6
TOT OBS:	4334															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00&03	3.7	1.1	3.3	.0	.0	.0	.0	6.6	1.5	.0	6.7	.1	3.5		.0	81.7
06&09	3.1	1.5	3.3	.0	.0	.0	.0	7.1	2.1	.1	3.7	.1	1.9		.0	85.1
12&15	3.4	1.3	3.5	.0	.0	.0	.2	8.2	3.0	.0	5.1	.0	1.7		.0	82.1
18&21	3.3	1.1	2.6	.0	.0	.0	.0	6.1	2.2	.0	6.4	.1	4.1		.1	81.0
TOT PCT	3.4	1.2	3.2	.0	.0	.0	*	7.0	2.2	*	5.4	.1	2.8		*	82.5
TOT OBS:	4405															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	.6	4.3	9.4	5.4	.6	.0		20.4	17.4	17.4	19.4	21.0	17.2	22.9	21.6	22.5	17.9
NE	.2	1.0	.9	.2	*	.0		2.3	11.5	1.4	2.2	2.1	1.9	2.0	3.2	3.7	2.6
E	.2	1.0	.4	*	.0	.0		1.6	8.9	1.6	1.5	.9	1.1	1.3	3.2	2.5	1.9
SE	.4	1.9	1.7	.9	.2	.0		5.1	13.9	4.9	5.7	3.1	5.5	3.7	5.5	5.9	10.1
S	.5	3.1	4.1	1.2	.1	.0		9.0	13.6	9.1	8.2	11.3	7.5	8.4	9.0	7.0	10.6
SW	.5	4.3	3.2	.5	*	.0		8.5	11.3	8.4	7.9	8.6	8.8	8.4	9.0	8.2	8.9
W	.8	6.5	5.3	1.1	.2	.0		13.8	12.0	16.3	14.4	14.4	13.3	13.8	15.0	10.1	12.6
NW	.9	9.1	17.3	7.6	.9	.0		36.0	16.3	38.6	38.7	35.4	40.6	34.7	30.0	35.7	34.2
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	3.3							3.3	.0	2.3	2.0	3.2	4.1	4.8	3.5	4.3	1.2
TOT OBS	352	1483	2024	800	96	0	4755		14.4	880	307	882	316	901	282	765	422
TOT PCT	7.4	31.2	42.6	16.8	2.0	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	1.9	7.5	8.7	2.1	.1		20.4	17.4	17.9	20.0	22.6	20.9
NE	.6	1.2	.5	*	.0		2.3	11.5	1.6	2.1	2.3	3.3
E	.7	.6	.3	.0	.0		1.6	8.9	1.6	.9	1.7	2.3
SE	1.2	2.2	1.2	.5	.0		5.1	13.9	5.1	3.7	4.1	7.4
S	1.6	4.5	2.4	.4	*		9.0	13.6	8.8	10.3	8.6	8.3
SW	2.1	4.7	1.5	.1	*		8.5	11.3	8.2	8.6	8.5	8.5
W	3.1	7.6	2.6	.4	*		13.8	12.0	15.8	14.1	14.1	11.0
NW	3.6	15.8	13.4	3.0	.1		36.0	16.3	38.6	36.8	33.6	35.1
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	3.3						3.3	.0	2.2	3.4	4.5	3.2
TOT OBS	871	2103	1451	315	15	4755		14.4	1187	1198	1183	1187
TOT PCT	18.3	44.2	30.5	6.6	.3		100.0		100.0	100.0	100.0	100.0

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PERIOD: (PRIMARY) 1941-1974
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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	2.2	4.1	30.9	42.0	19.2	1.5	.0	14.7	100.0	1187
06&09	3.4	3.1	30.1	44.7	17.1	1.7	.0	14.6	100.0	1198
12&15	4.5	4.4	30.7	41.7	16.4	2.4	.0	14.2	100.0	1183
18&21	3.2	4.8	33.0	41.9	14.6	2.5	.0	14.0	100.0	1187
TOT	158	195	1482	2024	800	96	0	14.4		4755
PCT	3.3	4.1	31.2	42.6	16.8	2.0	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	10.3	3.5	5.0	3.3		3.4
NE	.9	.3	.5	.6		4.0
E	.5	.2	.3	.6		4.8
SE	.4	.4	1.2	2.0		6.3
S	1.1	1.0	1.7	4.5		6.2
SW	1.2	.7	2.4	3.3		6.0
W	3.8	1.8	4.0	4.5		5.0
NW	13.8	6.4	9.4	6.8		3.9
VAR	.0	.0	.0	.0		.0
CALM	1.4	.3	.9	1.0		4.2
TOT OBS	1036	450	787	827	3100	4.4
TOT PCT	33.4	14.5	25.4	26.7	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.3	.1	.1	1.4	2.9	1.6	.4	.1	.1	*	15.1	
NE	*	.0	.1	.2	.2	.5	*	*	*	*	1.5	
E	.1	.0	.0	.1	.2	.2	.1	.0	.0	.0	.9	
SE	.2	*	.2	.2	.9	.5	.2	*	.1	.1	1.7	
S	.3	*	.3	1.3	1.5	1.2	.4	*	.1	*	3.0	
SW	.4	.2	.3	.8	1.5	1.2	.3	.1	.0	.0	2.9	
W	.4	.1	.4	1.2	2.2	1.8	.4	.0	.1	.1	7.5	
NW	.5	.1	.5	2.0	5.4	3.4	.8	.2	.1	.2	23.3	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.2	*	*	.2	.3	.5	.1	.1	.1	.1	2.0	
TOT OBS	73	17	60	226	468	333	81	14	19	15	1794	3100
TOT PCT	2.4	.5	1.9	7.3	15.1	10.7	2.6	.5	.6	.5	57.9	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM) * OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >50YD	* OR >0
* OR >6500	.8	1.1	1.1	1.1	1.1	1.1	1.1	1.1
* OR >5000	1.2	1.5	1.5	1.5	1.5	1.5	1.5	1.5
* OR >3500	3.2	4.0	4.1	4.1	4.1	4.1	4.1	4.1
* OR >2000	11.0	14.4	14.8	14.9	15.0	15.0	15.0	15.0
* OR >1000	22.1	28.7	29.6	29.9	30.0	30.0	30.0	30.0
* OR >600	26.4	35.1	36.6	37.0	37.1	37.2	37.2	37.2
* OR >300	27.2	36.5	38.3	38.8	39.1	39.1	39.1	39.1
* OR >150	27.3	36.9	38.7	39.2	39.5	39.6	39.6	39.6
* OR > 0	27.5	37.3	39.4	40.2	41.1	41.5	41.7	42.0
TOTAL	863	1170	1236	1263	1291	1302	1310	1317

TOTAL NUMBER OF OBS: 3138 PCT FREQ NH <5/8: 58.0

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
23.9	8.1	10.9	8.4	6.2	5.6	7.7	7.4	20.0	1.9	3278

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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	PCP	.0	.0	.0	.0	.1	.1	*	*	.0	.0	.2	
<1/2	NO PCP	.2	*	*	.2	.2	.2	.2	.4	.0	.1	1.5	
	TOT %	.2	*	*	.2	.3	.3	.2	.4	.0	.1	1.7	
	PCP	.0	.0	.0	.1	.1	.2	.1	*	.0	.0	.5	
1/2<1	NO PCP	.1	*	*	*	.4	.2	.2	.2	.0	*	1.1	
	TOT %	.1	*	*	.1	.4	.4	.2	.2	.0	*	1.6	
	PCP	*	.0	.0	*	.1	.2	*	*	.0	.0	.4	
1<2	NO PCP	.1	.0	.1	.1	.1	.1	.1	.2	.0	.0	.8	
	TOT %	.1	.0	.1	.1	.2	.3	.2	.2	.0	.0	1.2	
	PCP	*	*	*	.5	.6	.3	.1	*	.0	.0	1.7	
2<5	NO PCP	.2	.1	*	.2	.2	.4	.3	.6	.0	.1	2.0	
	TOT %	.2	.2	.1	.7	.7	.7	.5	.6	.0	.1	3.7	
	PCP	.1	*	.1	.5	1.0	.6	.5	.4	.0	*	3.2	
5<10	NO PCP	3.3	.4	.4	1.1	1.7	1.4	2.7	6.3	.0	.5	17.8	
	TOT %	3.4	.5	.5	1.6	2.7	2.0	3.3	6.6	.0	.5	21.0	
	PCP	.1	.0	*	.1	.2	.2	.1	.3	.0	*	1.1	
10+	NO PCP	16.6	1.6	.9	2.1	4.8	4.9	9.6	27.3	.0	2.1	69.8	
	TOT %	16.7	1.6	.9	2.2	5.0	5.0	9.7	27.6	.0	2.1	70.8	
	TOT OBS												4329
	TOT PCT	20.7	2.3	1.6	4.9	9.3	8.6	14.0	35.7	.0	2.9	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	0-3	*	*	.0	*	*	*	*	.1	.0	.2	.4	
<1/2	4-10	.1	*	*	.1	.2	.2	.2	.2	.0		1.1	
	11-21	*	.0	*	*	*	.0	*	.2	.0		.3	
	22+	.0	.0	.0	.0	*	.0	*	*	.0		.1	
	TOT %	.2	*	*	.1	.3	.3	.3	.5	.0	.2	1.9	
	0-3	.0	*	.0	*	*	*	*	*	.0	*	.2	
1/2<1	4-10	.1	*	*	*	.1	.1	.1	.1	.0		.5	
	11-21	.1	.0	.0	*	.3	.2	.1	.1	.0		.8	
	22+	.0	.0	.0	*	*	.1	.0	.0	.0		.1	
	TOT %	.1	*	*	.1	.4	.4	.2	.2	.0	*	1.6	
	0-3	*	.0	.0	.0	.0	*	.0	*	.0	.0	*	
1<2	4-10	*	*	.1	.1	.1	.1	.1	.1	.0		.5	
	11-21	*	.0	.0	*	.1	.2	.1	.1	.0		.5	
	22+	*	.0	.0	*	.1	*	*	*	.0		.2	
	TOT %	.1	*	.1	.1	.2	.3	.2	.3	.0	.0	1.3	
	0-3	*	.0	.0	*	.0	*	*	*	.0	.2	.3	
2<5	4-10	.1	.1	*	.1	.1	.3	.2	.4	.0		1.3	
	11-21	.1	.1	*	.1	.3	.3	.2	.3	.0		1.4	
	22+	.1	*	.0	.4	.3	.1	.1	.1	.0		1.0	
	TOT %	.3	.1	.1	.7	.7	.7	.5	.8	.0	.2	4.0	
	0-3	.2	*	.1	.1	.2	.1	.2	.3	.0	.5	1.6	
5<10	4-10	.8	.2	.3	.4	.7	.8	1.4	1.5	.0		6.1	
	11-21	1.3	.2	.1	.6	1.2	.9	1.2	3.4	.0		8.9	
	22+	1.0	*	.0	.4	.5	.1	.4	1.4	.0		3.8	
	TOT %	3.3	.4	.5	1.6	2.6	1.9	3.2	6.5	.0	.5	20.5	
	0-3	.4	.1	*	.2	.3	.2	.4	.4	.0	2.3	4.3	
10+	4-10	3.1	.7	.6	1.1	2.0	2.6	4.4	6.9	.0		21.5	
	11-21	8.0	.6	.2	.7	2.1	1.7	3.9	13.7	.0		31.1	
	22+	5.1	.2	*	.2	.4	.3	.8	7.0	.0		14.0	
	TOT %	16.6	1.6	.9	2.2	4.8	4.8	9.5	28.1	.0	2.3	70.8	
	TOT OBS												4523
	TOT PCT	20.6	2.3	1.6	4.8	9.0	8.4	13.8	36.3	.0	3.2	100.0	

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PERIOD: (PRIMARY) 1941-1974
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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET,NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00&03	2.4	.5	1.3	7.4	13.9	9.6	3.9	.6	.6	.1	40.4	59.6	822
06&09	2.1	.5	1.6	5.1	13.1	10.6	1.8	.5	.5	.7	36.4	63.6	865
12&15	2.8	.7	2.4	7.0	15.2	11.3	1.8	.3	.8	.7	43.0	57.0	741
18&21	2.1	.5	2.3	9.0	17.2	11.0	2.7	.4	.5	.4	46.0	54.0	780
TOT	75	17	61	227	474	341	82	14	19	15	1325	1883	3208
PCT	2.3	.5	1.9	7.1	14.8	10.6	2.6	.4	.6	.5	41.3	58.7	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00 03	1.7	1.8	1.4	4.8	20.7	69.6	1150
06&09	1.8	.9	.7	3.9	19.3	73.5	1174
12&15	1.9	2.1	1.4	3.9	21.2	69.4	1144
18&21	2.4	1.7	1.8	3.3	21.6	69.3	1126
TOT	90	74	60	183	950	3237	4594
PCT	2.0	1.6	1.3	4.0	20.7	70.5	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET,NH >4/8),BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	2.5	4.7	13.9	27.6	58.6	801
06&09	2.1	4.4	11.3	26.6	62.1	841
12&15	2.9	6.2	14.5	29.2	56.2	729
18&21	2.1	5.7	16.0	31.6	52.4	767
TOT	75	164	435	900	1803	3138
PCT	2.4	5.2	13.9	28.7	57.5	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
70/74	.0	.0	.0	.1	.1	*	.0	.0	5	.2
65/69	.0	*	.1	.1	.3	.2	*	*	27	.8
60/64	*	.1	.2	.6	1.2	1.7	1.0	.1	154	4.8
55/59	.0	.0	.2	1.0	2.8	7.0	11.6	5.2	888	27 8
50/54	.0	.0	.2	1.4	8.5	12.3	22.9	11.7	1822	57.0
45/49	.0	.0	*	.2	1.3	3.0	2.3	2.1	287	9.0
40/44	.0	.0	.0	.0	.0	.2	.1	.1	12	.4
35/39	.0	.0	.0	.0	.0	.1	.0	.0	2	.1
TOTAL	1	3	23	104	452	784	1215	615	3197	100.0
PCT	*	.1	.7	3.3	14.1	24.5	38.0	19.2		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
*	.0	.0	0	.0	*	*	*	.0	*
.2	.1	*	.0	.1	*	.2	.2	.0	.0
.7	.2	.2	.2	.5	.6	.9	1.4	.0	.2
4.4	.5	.6	1.6	2.9	3.3	4.3	9.1	.0	1.0
13.0	1.0	.6	2.3	5.1	3.8	8.2	21.6	.0	1.4
2.6	.3	.2	.2	.2	.3	1.1	3.8	.0	.2
.1	*	*	.0	.0	.1	*	.1	.0	.1
*	.0	.0	.0	.0	.0	.0	*	.0	*
21.0	2.1	1.6	4.4	8.9	8.1	14.8	36.1	.0	2.9

TABLE 15

MEANS,EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	90%	5%	1%	MIN	MEAN	TOTAL OBS
00&03	72	66	61	54	50	45	37	54.6	1199
06&09	68	60	57	53	48	45	42	52.8	1212
12&15	69	61	57	52	48	45	34	52.3	1198
18&21	70	65	62	54	49	47	46	54.4	1195
TOT	72	64	60	53	48	46	34	53.6	4804

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00&03	.0	5.5	15.0	28.2	36.5	14.8	79	839
06&09	.0	2.9	10.8	21.2	41.7	23.4	82	849
12&15	.0	2.6	11.6	21.7	40.7	23.4	82	783
18&21	.1	5.4	18.8	26.8	32.5	16.3	78	772
TOT	1	133	454	794	1230	631	80	3243

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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	37 40	41 44	45 48	49 52	53 56	57 60	61 64	65 68	69 72	TOT	W FOG	WO FOG
17/19	.0	.0	.0	.0	.0	.0	.0	.0	.1	3	.0	.1
14/16	.0	.0	.0	.0	*	.0	*	*	.1	9	.0	.2
11/13	.0	.0	.0	.0	*	*	.3	.1	.0	21	*	.5
9/10	.0	.0	.0	.0	*	.2	.5	.2	.1	41	.1	.9
7/8	.0	.0	.0	*	.2	.8	.8	.1	.0	78	.1	1.8
6	.0	.0	.0	*	.2	.7	.4	*	.0	56	.1	1.2
5	.0	*	.0	.1	.6	1.4	.3	*	.0	97	.1	2.3
4	.0	.0	*	.2	1.4	1.3	.4	*	.0	140	.3	3.1
3	.0	.0	.0	.3	1.9	1.9	.1	.0	.0	173	.5	3.8
2	*	.0	.1	1.3	4.7	2.4	.2	.0	.0	358	.8	7.9
1	.0	*	*	1.9	5.2	1.6	*	.0	.0	363	.7	8.2
0	*	.0	.1	4.2	8.7	1.6	.1	.0	.0	607	.8	14.0
-1	.0	.0	.1	4.2	7.0	.6	*	.0	.0	494	.7	11.4
-2	.0	.0	.5	6.6	5.6	.2	*	.0	.0	530	.9	12.0
-3	.0	.0	.4	4.8	3.2	.2	.0	.0	.0	355	.1	8.5
-4	.0	.0	1.0	4.3	1.6	.1	.0	.0	.0	296	.2	7.0
-5	.0	.0	.6	3.3	.9	*	.0	.0	.0	196	*	4.7
-6	.0	*	.8	2.0	.3	.1	*	.0	.0	132	.1	3.1
-7/-8	.0	*	.8	1.3	.1	*	*	.0	.0	94	*	2.2
-9/-10	.0	*	.5	.3	.0	.0	.0	.0	.0	32	.0	.8
-11/-13	.0	*	.1	.1	.2	.0	.0	.0	.0	19	*	.4
-14/-16	*	.0	.0	.1	*	.0	.0	.0	.0	8	.0	.2
-17/-19	.0	.0	*	*	.0	.0	.0	.0	.0	3	.0	.1
TOTAL	4	7	207	1453	1719	549	132	23	11	4105	231	3874
PCT	.1	.2	5.0	35.4	41.9	13.4	3.2	.6	.3	100.0	5.6	94.4

PERIOD: (OVER-ALL) 1963-1974

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	.3	.0	.0	.0	.0	.5
1-2	.2	2.4	1.7	.0	.0	.0	4.3
3-4	.1	.6	2.8	.6	.0	.0	4.0
5-6	.0	.1	3.1	1.4	.1	.0	4.6
7	.0	.2	1.8	.7	.2	.0	2.9
8-9	.0	.0	.7	1.8	.0	.0	2.5
10-11	.0	.0	.2	.8	.1	.0	1.0
12	.0	.0	.0	.5	.2	.0	.6
13-16	.0	.0	.0	.3	.2	.0	.5
17-19	.0	.0	.0	.0	.1	.0	.1
20-22	.0	.0	.0	.0	.1	.0	.1
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.4	3.6	10.2	6.1	.9	.0	21.2

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.4	.2	.0	.0	.0	.7
1-2	*	.4	.3	.0	.0	.0	.6
3-4	*	.2	.4	.1	.0	.0	.7
5-6	.0	.1	.1	.0	.0	.0	.1
7	.0	.0	*	.0	.0	.0	*
8-9	.0	.0	.0	*	.0	.0	*
10-11	.0	.0	.1	.0	.0	.0	.1
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.1	1.1	1.1	.1	.0	.0	2.3

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.3	.1	.0	.0	.0	.4
1-2	.0	.5	.2	.0	.0	.0	.7
3-4	.0	.1	.2	.0	.0	.0	.3
5-6	.0	.1	.1	.1	.0	.0	.2
7	.0	.0	.1	.0	.0	.0	.1
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	1.0	.6	.1	.0	.0	1.7

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.7	.2	.0	.0	.0	.9
1-2	.1	1.0	.4	.0	.0	.0	1.5
3-4	.0	.2	.8	.1	.0	.0	1.0
5-6	.0	.0	.4	.1	.1	.0	.6
7	.0	.0	.1	.2	.0	.0	.3
8-9	.0	.0	.0	.1	.0	.0	.1
10-11	.0	.0	.0	.0	.1	.0	.1
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.1	.0	.1
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	0	.0	.0	.0
TOT PCT	.1	1.9	1.8	.4	.2	.0	4.4

PERIOD: (OVER-ALL) 1963-1974

MARCH

AREA 0035 SAN FRANCISCO 37.0N 123.7W

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

	S							SW						
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.6	.2	.0	.0	.0	.8	.1	.9	.1	.0	.0	.0	1.1
1-2	.1	1.2	.8	.0	.0	.0	2.1	.1	1.3	.5	.0	.0	.0	1.9
3-4	.0	1.0	1.8	.2	.0	.0	3.0	.0	.8	.8	.2	.0	.0	1.7
5-6	.0	.2	1.0	.4	.0	.0	1.6	.0	.1	.8	.2	.0	.0	1.0
7	.0	.1	.5	.4	.0	.0	.9	.0	.0	.3	.1	.0	.0	.4
8-9	.0	.1	.0	.2	.0	.0	.4	.0	.0	.1	*	.0	.0	.2
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	.0	.0	.0	*
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.1	.2	.0	.0	.3	.0	.0	.0	*	.0	.0	*
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.1	3.2	4.4	1.4	.0	.0	9.2	.2	3.1	2.5	.5	.0	.0	6.3

	W							NW							TOTAL
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	PCT
<1	.2	1.8	.4	.0	.0	.0	2.5	.3	1.8	.4	.0	.0	.0	2.5	
1-2	.1	2.2	1.3	.0	.0	.0	3.6	.1	4.2	3.8	.0	.0	.0	8.0	
3-4	.0	1.6	1.1	.4	.0	.0	3.1	.0	1.8	6.2	2.0	.0	.0	10.0	
5-6	.0	.5	.9	.4	.1	.0	1.8	.0	.8	5.0	1.7	.4	.0	7.8	
7	.0	.1	.7	.1	.0	.0	.9	.0	.1	1.9	2.0	.2	.0	4.2	
8-9	.0	.0	.1	.1	.1	.0	.4	.0	.0	.9	1.6	.3	.0	2.8	
10-11	.0	.0	.1	.1	.0	.0	.1	.0	.0	.7	.9	.1	.0	1.7	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.2	.1	.0	.5	
13-16	.0	.0	.0	.1	.0	.0	.1	.0	.0	.1	.3	.1	.0	.5	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.1	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.3	6.1	4.6	1.2	.2	.0	12.4	.3	8.6	19.1	8.8	1.2	.0	38.1	95.7

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	5.4	6.9	1.5	.0	.0	.0	13.9	
1-2	.8	13.1	9.0	.0	.0	.0	22.9	
3-4	.1	6.1	14.0	3.5	.0	.0	23.7	
5-6	.0	1.7	11.2	4.2	.6	.0	17.8	
7	.0	.4	5.2	3.5	.3	.0	9.5	
8-9	.0	.1	1.9	3.9	.4	.0	6.3	
10-11	.0	.0	1.0	1.7	.3	.0	3.0	
12	.0	.0	.2	.7	.3	.0	1.2	
13-16	.0	.0	.2	1.0	.3	.0	1.5	
17-19	.0	.0	.0	.0	.1	.0	.1	
20-22	.0	.0	.0	.0	.1	.0	.1	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	6.3	28.4	44.3	18.5	2.4	.0	100.0	1470

PERIOD: (OVER-ALL) 1949-1974

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	1.4	8.0	12.7	7.3	3.6	1.5	.7	.2	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1050	4
6-7	*	1.1	5.8	8.0	5.5	4.3	2.4	.9	.8	.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	858	6
8-9	.1	.3	2.1	2.1	3.3	3.8	1.9	1.0	1.4	.2	.2	*	.0	.0	.0	.0	.0	.0	.0	484	8
10-11	.0	.6	.7	1.2	1.8	1.5	1.1	.7	.8	.4	.2	.1	.1	.0	.0	.0	.0	.0	.0	265	9
12-13	.0	.0	.4	.4	.7	.4	.5	.3	.3	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	90	8
>13	.0	.0	.0	.2	.2	.2	.5	*	*	.0	.1	*	.0	.0	.0	.0	.0	.0	.0	38	9
INDET	2.2	.3	.9	.5	.4	.2	.1	.1	.1	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	148	3
TOTAL	109	308	660	578	495	350	214	97	110	29	17	4	2	0	0	0	0	0	0	2933	6
PCT	3.7	10.5	22.5	19.7	15.5	11.9	7.3	3.3	3.8	1.0	.6	.1	.1	.0	.0	.0	.0	.0	.0	100.0	

APRIL

PERIOD: (PRIMARY) 1943-1976
(OVER-ALL) 1858-1974

AREA 0035 SAN FRANCISCO
37.0N 123.0W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	.1	.1	.7	.0	.0	.0	.0	1.0	.8	.1	3.9	.0	2.6	.1		91.5
NE	1.2	3.7	.0	.0	.0	.0	.0	4.9	1.5	.0	3.7	.0	4.0	1.2		84.7
E	13.1	.0	1.5	.0	.0	.0	.0	14.6	5.1	.0	13.1	.0	.0	.0		67.2
SE	9.0	.2	2.6	.0	.0	.0	.0	11.8	2.0	1.4	9.4	.9	3.9	.7		70.0
S	7.6	1.4	4.5	.0	.0	.0	.0	13.1	2.4	.0	7.3	2.2	1.0	.0		74.0
SW	5.1	2.6	3.4	.0	.0	.0	.0	10.7	2.8	.0	8.5	.0	1.2	.0		76.7
W	2.0	1.1	1.4	.0	.0	.0	.0	4.2	2.3	.0	6.2	.1	2.1	.0		85.1
NW	.4	.3	.8	.0	.0	.0	.0	1.5	.8	.1	4.1	.2	3.0	.1		90.4
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0
CALM	.0	.9	2.6	.0	.0	.0	.0	3.5	1.7	.0	15.7	.0	2.6	.0		76.5
TOT PCT	1.7	.6	1.4	.0	.0	.0	.0	3.7	1.3	.1	5.3	.3	2.5	.1		86.7
TOT OBS:	4520															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00&03	1.5	.6	1.3	.0	.0	.0	.0	3.3	1.8	.1	5.6	.4	3.5	.2		85.1
06&09	1.8	.6	1.2	.0	.0	.0	.0	3.5	1.0	.1	4.3	.2	1.0	.1		90.0
12&15	2.0	.9	1.5	.0	.0	.0	.0	4.3	1.7	.2	5.7	.2	1.5	.1		86.4
18&21	1.9	.6	1.5	.0	.0	.0	.0	3.7	.8	.1	5.6	.3	4.4	.0		85.2
TOT PCT	1.8	.7	1.4	.0	.0	.0	.0	3.7	1.3	.1	5.3	.3	2.6	.1		86.7
TOT OBS:	4578															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	.4	4.0	9.8	6.6	1.2	.0		22.0	18.7	19.6	19.2	21.5	21.7	23.5	27.5	23.2	21.0
NE	.1	.9	.6	.1	*	.0		1.8	11.5	1.0	1.0	1.3	1.5	2.4	2.7	2.3	2.3
E	.2	.3	.2	*	.0	.0		.8	9.5	.7	1.0	.5	.3	1.1	1.2	.5	1.2
SE	.3	1.4	1.1	.4	*	.0		3.2	12.2	3.9	2.7	2.9	1.6	2.5	3.8	3.5	5.2
S	.5	2.7	2.5	.9	.1	.0		6.7	12.4	6.6	7.1	7.3	5.9	4.4	6.7	7.9	9.5
SW	.6	3.5	2.1	.2	*	.0		6.5	9.9	6.2	10.2	4.8	6.2	5.8	8.8	6.1	8.4
W	.6	5.4	4.9	1.3	.1	.0		12.4	12.6	13.5	11.4	13.9	13.9	12.4	10.8	9.9	11.8
NW	.5	9.5	21.3	11.0	1.5	.0		42.7	17.4	46.1	45.6	45.0	46.9	44.5	36.7	42.5	38.0
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	2.9							2.9	.0	2.4	1.9	2.9	2.0	3.5	1.8	4.0	2.6
TOT OBS	306	1377	2102	1014	143	0	4942		15.4	945	310	902	304	955	340	795	391
TOT PCT	6.2	27.9	42.5	20.5	2.9	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	1.7	7.6	9.1	3.6	.1		22.0	18.7	19.5	21.6	24.6	22.4
NE	.6	.8	.4	.1	.0		1.8	11.5	1.0	1.3	2.5	2.3
E	.4	.2	.2	.0	.0		.8	9.5	.8	.5	1.1	.7
SE	.9	1.6	.6	.2	.0		3.2	12.2	3.6	2.5	2.8	4.1
S	1.8	3.2	1.3	.3	.0		6.7	12.4	6.7	6.9	5.0	8.4
SW	2.3	3.3	.8	.1	.0		6.5	9.9	7.2	5.1	6.6	6.9
W	2.5	6.7	2.6	.5	.0		12.4	12.6	13.0	13.9	11.9	10.6
NW	3.2	17.6	17.9	5.0	*		43.7	17.4	46.0	45.5	42.5	41.0
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	2.9						2.9	.0	2.3	2.7	3.0	3.5
TOT OBS	804	2025	1621	486	6	4942		15.4	1255	1206	1295	1186
TOT PCT	16.3	41.0	32.8	9.8	.1		100.0		100.0	100.0	100.0	100.0

APRIL

PERIOD: (PRIMARY) 1943-1974
(OVER-ALL) 1858-1974

AREA 0035 SAN FRANCISCO
37.0N 123.0W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	2.3	3.2	24.6	43.4	23.3	3.1	.0	16.1	100.0	1255
06&09	2.7	2.5	28.2	41.5	22.0	3.2	.0	15.8	100.0	1206
12&15	3.0	3.9	29.1	42.4	18.9	2.6	.0	15.1	100.0	1295
18&21	3.5	3.6	29.6	42.7	17.8	2.7	.0	14.9	100.0	1186
TOT	142	164	1377	2102	1014	143	0	15.4		4942
PCT	2.9	3.3	27.9	42.5	20.5	2.9	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	9.6	3.5	5.4	4.3		3.8
NE	.5	.3	.5	.6		4.8
E	.2	*	.1	.5		5.6
SE	.4	.2	.6	1.9		6.5
S	.8	.4	1.8	3.6		6.4
SW	.9	.7	1.8	2.5		5.8
W	4.5	2.0	2.7	3.3		4.2
NW	20.1	7.0	9.3	7.2		3.5
VAR	.0	.0	.0	.0		.0
CALM	1.1	*	.7	1.1		4.9
TOT OBS	1262	473	759	826	3320	4.1
TOT PCT	38.0	14.2	22.9	24.9	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.3	.1	.4	1.6	3.4	1.9	.4	.2	.0	.1	14.5	
NE	*	.0	.0	.2	.3	.3	.1	*	*	.0	1.0	
E	*	.0	*	.1	.2	.1	*	.0	*	*	.3	
SE	.2	*	.2	.4	.6	.6	*	.0	*	.0	.9	
S	.5	.1	.4	.9	1.4	1.0	.1	.0	.0	.1	2.1	
SW	.3	*	.3	.5	1.1	.8	.2	.0	*	.1	2.6	
W	.4	.1	.3	.7	2.0	.8	.4	*	*	.1	7.6	
NW	.6	.2	.5	2.2	4.9	3.1	1.2	.3	.2	.2	30.3	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.5	*	.0	.2	.2	.7	.0	*	.0	.0	1.4	
TOT OBS	93	16	66	222	464	311	82	19	13	18	2016	3320
TOT PCT	2.8	.5	2.0	6.7	14.0	9.4	2.5	.6	.4	.5	60.7	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM) * OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >50YD	* OR >0
* OR >6500	.8	1.0	1.0	1.0	1.0	1.0	1.0	1.0
* OR >5000	1.3	1.5	1.5	1.5	1.5	1.5	1.5	1.5
* OR >3500	3.2	4.0	4.0	4.0	4.0	4.0	4.0	4.0
* OR >2000	10.4	13.2	13.4	13.4	13.4	13.4	13.4	13.4
* OR >1000	20.4	26.3	27.1	27.1	27.2	27.2	27.3	27.3
* OR >600	24.6	32.5	33.7	33.8	33.9	33.9	33.9	33.9
* OR >300	25.5	34.1	35.4	35.6	35.8	35.8	35.9	35.9
* OR >150	25.6	34.4	35.8	36.0	36.2	36.3	36.4	36.4
* OR > 0	25.9	34.9	36.5	37.0	37.6	38.3	39.0	39.1
TOTAL	869	1171	1227	1242	1262	1286	1311	1314

TOTAL NUMBER OF OBS: 3359

PCT FREQ NH <5/8: 60.9

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
27.5	8.4	10.8	7.6	6.5	5.2	7.3	6.9	17.6	2.4	3501

APRIL

PERIOD: (PRIMARY) 1943-1974
(OVER-ALL) 1858-1974

AREA 0035 SAN FRANCISCO
37.0N 123.0W

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	*	.0	*	*	.0	.0	.0	.0	.1	
	NO PCP	.1	*	.0	.1	.2	.3	.2	.4	.0	.3	1.7	
	TOT %	.1	*	*	.1	.2	.3	.2	.4	.0	.3	1.8	
1/2<1	PCP	.0	.0	*	.0	.0	.0	*	*	.0	.0	.1	
	NO PCP	.3	*	*	.1	.1	*	.2	.4	.0	*	1.3	
	TOT %	.3	*	.1	.1	.1	*	.2	.4	.0	*	1.4	
1<2	PCP	.0	.0	.0	*	.1	*	*	*	.0	.0	.2	
	NO PCP	.1	.0	*	*	.1	*	.1	.2	.0	*	.5	
	TOT %	.1	.0	*	.1	.1	*	.1	.2	.0	*	.7	
2<5	PCP	*	*	*	.1	.2	.1	.1	.1	.0	*	.7	
	NO PCP	.5	*	.0	.1	.2	.2	.2	.7	.0	*	2.0	
	TOT %	.6	.1	*	.2	.5	.3	.3	.8	.0	.1	2.8	
5<10	PCP	.1	.0	*	.2	.4	.4	.3	.2	.0	*	1.8	
	NO PCP	3.6	.4	.2	.9	1.5	1.6	1.9	7.1	.0	.7	17.9	
	TOT %	3.7	.4	.2	1.1	2.0	2.0	2.2	7.4	.0	.7	19.7	
10+	PCP	*	*	.0	*	.1	.2	.1	.2	.0	*	.8	
	NO PCP	17.4	1.2	.4	1.6	3.9	3.8	9.1	34.0	.0	1.4	72.9	
	TOT %	17.4	1.3	.4	1.7	4.1	4.0	9.2	34.2	.0	1.4	73.7	
	TOT OBS												4516
	TOT PCT	22.3	1.8	.8	3.2	6.9	6.7	12.3	43.5	.0	2.5	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	*	*	.0	*	*	*	*	.1	.0	.3	.5	
	4-10	.1	.0	.0	*	.1	.2	.2	.2	.0		.8	
	11-21	.1	.0	*	.1	.1	.1	.0	.2	.0		.5	
	22+	.0	.0	.0	.0	*	.0	.0	*	.0		*	
	TOT %	.2	*	*	.1	.3	.3	.2	.5	.0	.3	1.9	
1/2<1	0-3	*	.0	.0	.0	*	*	.1	.1	.0	*	.2	
	4-10	*	*	*	.1	.1	*	.1	.1	.0		.5	
	11-21	.1	*	*	.0	*	.0	*	.1	.0		.3	
	22+	.2	.0	.0	.0	.0	.0	*	.1	.0		.3	
	TOT %	.3	*	.1	.1	.1	*	.2	.4	.0	*	1.3	
1<2	0-3	.0	.0	*	.0	.0	.0	*	*	.0	*	.1	
	4-10	.1	*	*	*	.1	*	.1	.1	.0		.3	
	11-21	*	.0	*	.1	.1	*	.1	.2	.0		.4	
	22+	.0	.0	.0	.0	*	.0	.0	*	.0		.1	
	TOT %	.1	*	.1	.1	.2	*	.1	.2	.0	*	.9	
2<5	0-3	.0	.0	.0	*	*	.0	*	.0	.0	.1	.1	
	4-10	.2	*	*	.1	.2	.2	.2	.2	.0		1.1	
	11-21	.3	*	*	.1	[illegible]	.2	.1	.6	.0		1.5	
	22+	.1	.0	.0	.1	.1	.0	*	.2	.0		.5	
	TOT %	.7	.1	*	.2	.5	.3	.4	1.1	.0	.1	3.3	
5<10	0-3	.1	*	.1	.1	.1	.1	.2	.1	.0	.8	1.5	
	4-10	.7	.2	.1	.5	.8	1.1	1.0	1.8	.0		6.2	
	11-21	1.6	.2	*	.4	.7	.5	.7	3.6	.0		7.8	
	22+	1.2	*	*	.1	.3	.1	.2	1.8	.0		3.8	
	TOT %	3.6	.4	.2	1.1	1.9	1.9	2.2	7.3	.0	.8	19.3	
10+	0-3	.3	*	.1	.2	.3	.5	.3	.3	.0	1.5	3.5	
	4-10	2.8	.6	.2	.7	1.6	2.0	3.7	7.0	.0		18.6	
	11-21	7.7	.5	.1	.5	1.5	1.3	4.1	16.6	.0		32.3	
	22+	6.4	.1	*	.2	.5	.1	1.2	10.4	.0		18.9	
	TOT %	17.3	1.2	.4	1.6	3.9	3.9	9.2	34.3	.0	1.5	73.4	
	TOT OBS												4768
	TOT PCT	22.1	1.8	.8	3.2	6.8	6.5	12.3	43.8	.0	2.7	100.0	

APRIL

PERIOD: (PRIMARY) 1943-1974
(OVER-ALL) 1858-1974

AREA 0035 SAN FRANCISCO
37.0N 123.6W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00&03	2.0	.8	2.1	8.3	12.6	9.0	3.0	.6	.4	.8	39.6	60.4	891
06&09	2.1	.5	2.3	4.0	12.2	7.9	2.3	.8	.5	.5	32.9	67.1	875
12&15	3.6	.1	1.3	6.9	14.5	8.1	1.9	.4	.5	.2	37.6	62.4	836
18&21	3.2	.5	1.9	6.9	15.0	12.0	2.4	.5	.1	.7	43.1	56.9	844
TOT	93	16	66	225	467	318	83	19	13	19	1319	2127	3446
PCT	2.7	.5	1.9	6.5	13.6	9.2	2.4	.6	.4	.6	38.3	61.7	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00&03	2.0	1.3	.7	2.9	22.2	71.0	1229
06&09	2.3	.7	.4	3.2	17.9	75.5	1185
12&15	1.8	2.0	1.0	2.8	18.0	74.4	1255
18&21	1.7	1.1	1.4	4.1	19.0	72.7	1157
TOT	93	62	42	156	931	3542	4826
PCT	1.9	1.3	.9	3.2	19.3	73.4	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET, NH >4/8), BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	2.1	5.4	14.9	26.4	58.7	866
06&09	2.2	5.3	11.4	23.3	65.3	861
12&15	3.7	5.4	14.1	25.1	60.9	818
18&21	3.3	6.1	14.9	30.7	54.4	814
TOT	94	187	463	885	2011	3359
PCT	2.8	5.6	13.8	26.3	59.9	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
70/74	.0	.0	.0	.1	.1	.0	.0	.0	4	.1
65/69	.0	.0	.0	.1	.3	.3	.1	.0	25	.8
60/64	.0	.0	.1	.3	1.4	1.8	1.2	.3	166	5.1
55/59	.0	.0	.1	.6	3.2	8.9	11.0	5.4	940	29.1
50/54	.0	.0	.2	.9	6.5	12.2	25.8	11.8	1852	57.4
45/49	.0	.0	*	.2	.6	1.9	2.8	1.7	234	7.3
40/44	.0	.0	.0	.0	*	.1	.0	.1	6	.2
TOTAL	0	0	13	71	390	814	1318	621	3227	100.0
PCT	.0	.0	.4	2.2	12.1	25.2	40.8	19.2		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.0	.0	*	*	*	*	.0	*
.2	.1	.0	.0	.1	.1	.1	.2	.0	.1
1.1	.1	.1	.2	.5	.4	.8	1.7	.0	.2
6.5	.7	.2	1.4	3.3	2.8	3.3	10.3	.0	.4
15.0	.8	.2	1.1	2.2	2.3	7.3	27.5	.0	.9
1.5	.1	*	.1	.1	.4	1.2	3.6	.0	.1
.1	.0	.0	.0	*	.0	*	.1	.0	.0
24.3	1.8	.6	2.8	6.3	6.1	12.8	43.5	.0	1.8

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00&03	70	66	61	55	50	48	43	55.1	1271
06&09	70	61	58	53	49	48	42	53.0	1207
12&15	75	61	57	52	48	46	40	52.4	1306
18&21	74	65	62	54	49	48	46	54.8	1199
TOT	75	64	60	54	49	47	40	53.8	4983

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-89	70-79	80-89	90-100	MEAN	TOTAL OBS
00&03	.0	2.9	14.9	29.7	39.0	13.6	79	841
06&09	.0	1.6	9.5	21.3	45.7	21.9	83	812
12&15	.0	2.3	8.6	20.9	44.1	24.1	83	826
18&21	.0	3.5	15.1	28.8	35.0	17.6	80	795
TOT	0	84	393	825	1341	631	81	3274

PERIOD: (PRIMARY) 1943-1974
(OVER-ALL) 1858-1974

TABLE 17

AREA 0035 SAN FRANCISCO
37.0N 123.0W

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	37 40	41 44	45 48	49 52	53 56	57 60	61 64	65 68	69 72	73 76	TOT	W FOG	WO FOG
20/22	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	1	.0	*
17/19	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	3	.0	.1
14/16	.0	.0	.0	.0	*	.0	.1	*	*	.0	8	.0	.2
11/13	.0	.0	.0	*	.0	*	.2	.3	.1	.0	28	.0	.7
9/10	.0	.0	.0	*	.1	.3	.4	.1	.0	.0	40	*	.9
7/8	.0	.0	*	.0	.2	1.2	.6	.1	.0	.0	90	*	2.1
6	.0	.0	.0	.1	.4	.9	.4	.0	*	.0	78	.1	1.8
5	.0	.0	*	.0	.7	1.3	.4	.0	.0	.0	102	.1	2.4
4	.0	.0	*	.3	1.6	2.2	.6	.0	*	.0	201	.4	4.5
3	.0	.0	.0	.4	2.6	1.6	.2	.0	.0	.0	198	.3	4.4
2	.0	*	.1	1.7	4.2	2.6	.4	.0	.0	.0	372	.6	8.4
1	.0	*	*	2.2	6.4	1.4	.1	.0	.0	.0	419	.6	9.5
0	.0	*	.1	4.2	8.2	1.9	.1	.0	.0	.0	608	.9	13.7
-1	.0	.0	.2	5.1	5.9	.5	.0	.0	.0	.0	487	.8	10.9
-2	.0	.0	.5	6.8	4.1	.5	*	.0	.0	.0	497	.5	11.5
-3	.0	.0	.4	5.6	3.1	.1	.0	.0	.0	.0	384	.3	8.9
-4	.0	.0	.7	4.2	1.6	.2	.0	.0	.0	.0	276	.2	6.4
-5	.0	.0	.4	2.8	.8	.1	*	.0	.0	.0	173	.1	4.1
-6	.0	.0	.3	1.3	.5	*	.0	.0	.0	.0	90	.1	2.0
-7/-8	.0	*	.4	.8	.3	.1	.0	.0	.0	.0	67	.1	1.5
-9/-10	*	.0	.1	.2	.2	*	*	.0	.0	.0	26	*	.6
-11/-13	.0	.0	*	.2	*	.0	.0	.0	.0	.0	11	.0	.3
-14/-16	.0	.0	*	.1	.1	.0	.0	.0	.0	.0	7	.0	.2
-17/-19	.0	.0	.0	.0	.1	*	.0	.0	.0	.0	4	.0	.1
TOTAL	1	5	134	1505	1715	625	148	29	7	1	4170	214	3956
PCT	*	.1	3.2	36.1	41.1	15.0	3.5	.7	.2	*	100.0	5.1	94.9

PERIOD: (OVER-ALL) 1963-1974

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.4	*	.0	.0	.0	.4
1-2	.1	1.1	1.5	.0	.0	.0	2.7
3-4	*	.6	3.2	.8	.0	.0	4.7
5-6	.0	.2	2.4	1.0	.1	.0	3.7
7	.0	*	1.5	1.1	.5	.0	3.2
8-9	.0	.1	.9	1.2	.4	.0	2.7
10-11	.0	.0	.2	1.2	.3	.0	1.8
12	.0	.0	.0	.9	.2	.0	1.1
13-16	.0	.0	.1	.2	.5	.0	.8
17-19	.0	.0	.0	*	.0	.0	*
20-22	.0	.0	.0	.0	.2	.0	.2
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
T / PCT	.1	2.5	9.8	6.5	2.2	.0	21.2

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.2	.0	.0	.0	.0	.2
1-2	.1	.2	.1	.0	.0	.0	.4
3-4	.0	.3	.5	*	.0	.0	.7
5-6	.0	.0	.1	.0	.0	.0	.1
7	.0	.0	.0	.1	.0	.0	.1
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.1	*	.0	.1
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	.8	1.0	.5	*	.0	2.7

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.1	.0	.0	.0	.0	.1
1-2	.0	.1	.0	.0	.0	.0	.1
3-4	.0	.1	.1	.0	.0	.0	.1
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.2	.1	.0	.0	.0	.3

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	.3	*	.0	.0	.0	.5
1-2	*	.2	.4	.0	.0	.0	.6
3-4	.0	.3	.3	.1	.0	.0	.8
5-6	.0	.1	.1	.1	.0	.0	.3
7	.0	.0	.1	.2	*	.0	.3
8-9	.0	.0	.1	*	.0	.0	.1
10-11	.0	.0	.0	.1	.0	.0	.1
12	.0	.0	.0	*	.0	.0	*
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	.8	1.0	.5	*	.0	2.7

PERIOD: (OVER-ALL) 1963-1974 APRIL AREA 0035 SAN FRANCISCO

TABLE 18 (CONT) 37.0N 123.6W

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

	S							SW						
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.3	.2	.0	.0	.0	.6	.2	.6	.1	.0	.0	.0	1.0
1-2	.1	.8	.6	.0	.0	.0	1.5	.1	1.0	.3	.0	.0	.0	1.4
3-4	.0	.2	.7	.2	.0	.0	1.1	.0	.5	.6	*	.0	.0	1.1
5-6	.0	.1	.4	.3	.0	.0	.8	.0	.1	.2	.0	.0	.0	.3
7	.0	.0	.3	.1	*	.0	.5	.0	*	.1	.0	.1	.0	.1
8-9	.0	.0	.1	.1	.1	.0	.2	.0	.0	.1	.0	.0	.0	.1
10-11	.0	.0	.0	.2	.0	.0	.2	.0	.1	.0	.0	.0	.0	.1
12	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	*	.0	.0	*
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	1.5	2.3	1.1	.2	.0	5.2	.3	2.3	1.5	*	.1	.0	4.1

	W							NW						TOTAL
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	PCT
<1	.1	.9	.1	.0	.0	.0	1.2	.1	1.7	.4	.0	.0	.0	2.3	
1-2	.1	1.8	2.0	.0	.0	.0	3.9	*	2.8	4.1	.0	.0	.0	6.9	
3-4	.0	1.4	2.4	.7	.0	.0	4.4	*	1.9	7.2	3.1	.0	.0	12.2	
5-6	.0	.2	.7	.2	*	.0	1.2	.1	.7	4.9	2.5	.6	.0	8.8	
7	.0	*	.3	.0	.0	.0	.4	.0	.2	2.5	2.2	.4	.0	5.4	
8-9	.0	.0	.1	*	*	.0	.2	.0	.1	1.9	2.6	.2	.0	4.8	
10-11	.0	.1	.0	.1	.0	.0	.2	.0	.0	1.4	2.5	.3	.0	4.2	
12	.0	.0	.1	.0	.0	.0	.1	.0	.0	.4	1.2	.6	.0	2.2	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.1	.3	.5	.4	.0	1.2	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.2	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	.0	.1	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.2	4.5	5.7	1.0	.1	.0	11.6	.2	7.6	23.1	15.0	2.5	.0	48.4	95.3

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	5.4	4.8	1.0	.0	.0	.0	11.3	
1-2	.5	8.0	9.0	.0	.0	.0	17.5	
3-4	.1	5.2	14.9	4.9	.0	.0	25.1	
5-6	.1	1.5	8.8	4.1	.7	.0	15.2	
7	.0	.3	4.8	3.8	1.0	.0	10.0	
8-9	.0	.3	3.1	4.0	.7	.0	8.1	
10-11	.0	.1	1.7	4.2	.6	.0	6.6	
12	.0	.0	.5	2.3	.8	.0	3.5	
13-16	.0	.1	.3	.7	.9	.0	2.1	
17-19	.0	.0	.0	.3	.1	.0	.3	
20-22	.0	.0	.0	.1	.3	.0	.3	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
								1508
TOT PCT	6.1	20.4	44.1	24.3	5.1	.0	100.0	

PERIOD: (OVER-ALL) 1949-1974 TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	1.3	6.9	12.0	5.9	3.4	1.5	1.1	.4	.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	996	4
6-7	*	1.9	7.0	8.8	6.5	3.4	2.9	1.7	.6	.2	.1	.1	*	.0	.0	.0	.0	.0	.0	1007	6
8-9	.0	.3	1.5	3.0	3.2	3.1	2.9	1.6	1.2	.3	.1	.1	.0	.0	.0	.0	.0	.0	.0	520	8
10-11	.0	.5	.5	1.2	1.1	1.1	.9	.7	1.1	.2	.2	.1	.0	.0	.0	.0	.0	.0	.0	227	9
12-13	.0	.0	.5	.3	.4	.3	.3	.4	.7	*	.1	*	*	.0	.0	.0	.0	.0	.0	96	9
>13	.0	.0	.0	.1	.1	.1	.3	.0	.1	.0	.3	.1	*	.0	.0	.0	.0	.0	.0	32	13
INDET	1.8	.6	.7	.6	.3	.3	.2	.2	.1	*	.1	.0	.0	.0	.0	.0	.0	.0	.0	148	4
TOTAL	93	307	674	601	458	299	258	148	124	28	24	9	3	0	0	0	0	0	0	3026	6
PCT	3.1	10.1	22.3	19.9	15.1	9.9	8.5	4.9	4.1	.9	.8	.3	.1	.0	.0	.0	.0	.0	.0	100.0	

MAY

PERIOD: (PRIMARY) 1941-1973
(OVER-ALL) 1875-1973

AREA 0035 SAN FRANCISCO
36.9M 123.0W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA				
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	.8	.4	1.8	.0	.0	.0	.0	2.9	.2	.1	6.1	.3	2.7		.2	87.6
NE	2.3	1.1	4.0	.0	.0	.0	.0	6.3	2.3	.0	2.9	.0	5.1		.0	83.4
E	4.9	.0	2.5	.0	.0	.0	.0	7.4	3.3	.0	12.3	.0	7.4		.0	69.7
SE	5.0	.9	4.1	.0	.0	.0	.0	7.3	3.9	.0	17.3	.0	2.7		.0	68.9
S	6.7	.5	4.3	.0	.0	.0	.0	9.5	2.3	.0	10.8	.0	3.7		.0	73.7
SW	1.7	.4	2.2	.0	.0	.0	.0	4.3	1.2	.1	12.9	.4	2.9		.0	78.2
W	.6	.5	.9	.0	.0	.0	.0	2.0	2.2	.1	8.8	.2	3.4		.2	83.1
NW	.4	.4	1.0	.0	.0	.0	.0	1.8	.5	*	5.9	.3	4.1		.1	87.3
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	.0
CALM	.0	.0	2.4	.0	.0	.0	.0	2.4	2.4	.0	15.7	1.2	4.8		.0	73.5
TOT PCT	1.0	.4	1.5	.0	.0	.0	.0	2.8	.9	*	7.4	.3	3.6		.1	84.8
TOT OBS:	4550															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA				
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00&03	.6	.3	1.1	.0	.0	.0	.0	2.0	1.0	.1	8.5	.2	5.0		.0	83.2
06&09	.7	.2	1.7	.0	.0	.0	.0	2.6	.8	.1	6.6	.3	2.2		.1	87.4
12&15	1.7	1.0	2.9	.0	.0	.0	.0	5.0	1.1	.0	7.3	.2	2.6		.0	83.9
18&21	1.1	.3	.7	.0	.0	.0	.0	1.8	.9	.0	7.8	.5	4.4		.3	84.2
TOT PCT	1.0	.4	1.6	.0	.0	.0	.0	2.9	.9	*	7.5	.3	3.6		.1	84.7
TOT OBS:	4633															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	.4	3.8	10.2	5.9	.6	.0		20.9	18.0	16.0	18.6	23.1	20.4	22.3	22.9	23.7	18.6
NE	.1	.4	.4	.1	*	.0		1.0	11.4	.6	.3	1.4	1.3	1.5	.9	.7	1.0
E	.1	.4	.1	*	.0	.0		.6	7.9	.3	.3	.6	.3	.7	.4	1.1	1.2
SE	.4	1.2	.8	.2	.0	.0		2.5	10.1	2.0	2.3	1.6	1.5	2.2	4.5	4.0	2.8
S	.4	2.5	1.6	.2	.0	.0		4.7	10.2	5.1	3.2	3.2	4.2	4.0	4.7	7.6	5.0
SW	.4	3.4	1.3	.1	*	.0		5.2	9.0	5.7	6.1	4.5	4.2	5.4	4.8	4.7	6.6
W	.6	6.1	5.2	1.3	*	.0		13.2	11.9	14.4	15.2	16.0	14.0	11.2	11.3	11.1	12.7
NW	.8	10.9	24.2	12.7	1.2	.0		49.8	17.1	54.9	52.9	48.3	52.7	48.5	47.4	44.9	50.8
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	2.1							2.1	.0	.9	1.0	1.5	1.4	4.0	3.1	2.2	1.4
TOT OBS	262	1427	2179	1010	95	0	4973		15.2	858	983	875	967	917	985	770	418
TOT PCT	5.3	28.7	43.8	20.3	1.9	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	1.5	7.6	9.2	2.5	.1		20.9	18.0	16.8	22.3	22.5	21.9
NE	.4	.4	.2	*	*		1.0	11.4	.5	1.3	1.3	.8
E	.3	.3	*	.0	.0		.6	7.9	.3	.5	.6	1.1
SE	.8	1.3	.4	*	.0		2.5	10.1	2.1	1.5	2.9	3.6
S	1.4	2.7	.6	*	.0		4.7	10.2	4.5	3.7	4.2	6.7
SW	1.8	3.0	.3	*	*		5.2	9.0	5.8	4.4	5.2	5.3
W	2.9	7.6	2.4	.4	.0		13.2	11.9	14.7	15.4	11.3	11.6
NW	3.8	20.8	19.7	5.2	.2		49.8	17.1	54.3	49.6	48.2	47.0
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	2.1						2.1	.0	1.0	1.4	3.8	1.9
TOT OBS	742	2172	1636	406	17	4973		15.2	1241	1242	1302	1188
TOT PCT	14.9	43.7	32.9	8.2	.3		100.0		100.0	100.0	100.0	100.0

MAY

PERIOD: (PRIMARY) 1941-1973
(OVER-ALL) 1875-1973

AREA 0035 SAN FRANCISCO
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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	1.0	2.7	27.0	45.0	22.2	2.1	.0	15.9	100.0	1241
06&09	1.4	2.9	27.8	43.9	22.3	1.7	.0	15.6	100.0	1242
12&15	3.8	3.4	29.5	42.5	18.4	2.4	.0	14.7	100.0	1302
18&21	1.9	3.9	30.6	43.9	18.3	1.4	.0	14.6	100.0	1188
TOT	102	160	1427	2179	1010	95	0	15.2		4973
PCT	2.1	3.2	28.7	43.8	20.3	1.9	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	7.1	2.4	5.3	6.8		4.6
NE	.4	.1	.4	.2		4.6
E	.2	*	.1	.4		5.4
SE	.6	.1	.3	1.0		5.4
S	.8	.4	1.2	2.4		6.0
SW	.9	.7	1.0	2.2		5.6
W	4.3	1.8	2.5	4.9		4.8
NW	18.9	5.9	10.1	14.5		4.3
VAR	.0	.0	.0	.0		.0
CALM	.8	.2	.2	.6		4.0
TOT OBS	1101	376	688	1067	3232	4.6
TOT PCT	34.1	11.6	21.3	33.0	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NM >4/8) AND OCCURRENCE OF NM <5/8 BY WIND DIRECTION

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NM <5/8 ANY HGT	TOTAL OBS
N	.5	*	.5	2.1	4.2	2.7	.3	*	*	.1	11.1	
NE	*	*	*	.1	.1	.2	*	.0	.0	.0	.6	
E	*	.0	*	*	.1	.2	.1	.0	.0	*	.3	
SE	.1	.0	.1	.2	.4	.2	*	*	*	*	1.0	
S	.2	*	.2	.5	.9	.9	.2	.1	*	.0	1.7	
SW	.3	*	.2	.3	1.1	.5	.1	*	.1	.0	2.2	
W	.7	*	.2	.8	2.7	1.3	.3	*	*	.1	7.3	
NW	1.4	.2	1.6	4.0	8.7	4.1	.7	.1	.1	.2	28.4	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.2	*	.0	.1	.1	.2	.0	*	.0	*	1.2	
TOT OBS	117	13	92	258	593	330	57	12	9	11	1740	3232
TOT PCT	3.6	.4	2.8	8.0	18.3	10.2	1.8	.4	.3	.3	53.8	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NM >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM) * OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >30YD	* OR >0
* OR >6500	.4	.6	.6	.6	.6	.6	.6	.6
* OR >5000	.7	1.0	1.0	1.0	1.0	1.0	1.0	1.0
* OR >3500	1.7	2.6	2.7	2.7	2.7	2.7	2.7	2.7
* OR >2000	9.0	12.3	12.8	12.8	12.8	12.8	12.8	12.8
* OR >1000	21.2	30.1	30.9	31.0	31.0	31.0	31.0	31.0
* OR >600	25.5	37.3	38.6	38.8	38.9	38.9	38.9	38.9
* OR >300	26.6	39.6	41.4	41.7	41.8	41.8	41.9	41.9
* OR >150	26.8	39.9	41.8	42.1	42.2	42.2	42.3	42.3
* OR > 0	26.9	40.4	42.7	43.4	44.0	44.6	45.5	45.8
TOTAL	880	1325	1399	1422	1440	1462	1491	1501

TOTAL NUMBER OF OBS: 3276

PCT FREQ NM <5/8: 54.2

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
22.6	9.4	9.6	6.2	5.8	4.3	6.4	6.8	25.6	3.3	3403

PERIOD: (PRIMARY) 1941-1973
(OVER-ALL) 1875-1973

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36.9N 123.0W

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	*	*	.0	.0	*	
	NO PCP	.4	*	*	.2	.1	.2	.4	.9	.0	.2	2.3	
	TOT %	.4	*	*	.2	.1	.2	.4	.9	.0	.2	2.3	
1/2<1	PCP	.0	.0	.0	.0	*	.0	.0	*	.0	.0	*	
	NO PCP	.3	.0	.0	*	*	.1	.1	.4	.0	*	.9	
	TOT %	.3	.0	.0	*	.1	.1	.1	.4	.0	*	1.0	
1<2	PCP	*	.0	.0	*	*	.0	*	*	.0	.0	.1	
	NO PCP	.2	*	*	.1	.1	.2	.1	.4	.0	*	1.1	
	TOT %	.2	*	*	.1	.1	.2	.2	.4	.0	*	1.2	
2<5	PCP	.1	*	.0	.1	.1	.1	*	.2	.0	.0	.7	
	NO PCP	.3	.0	*	.1	.2	.1	.5	1.1	.0	.1	2.4	
	TOT %	.5	*	*	.2	.2	.2	.6	1.3	.0	.1	3.1	
5<10	PCP	.4	*	*	.1	.3	.1	.1	.4	.0	*	1.4	
	NO PCP	5.1	.3	.2	.9	1.3	1.2	3.0	12.3	.0	.2	24.5	
	TOT %	5.5	.4	.2	.9	1.5	1.4	3.2	12.6	.0	.3	25.9	
10+	PCP	.1	*	*	*	.1	*	.1	.2	.0	.0	.6	
	NO PCP	14.7	.5	.4	1.0	2.7	3.2	8.9	33.2	.0	1.3	65.9	
	TOT %	14.8	.6	.4	1.1	2.8	3.2	9.0	33.5	.0	1.3	66.5	
	TOT OBS												4544
	TOT PCT	21.6	1.0	.7	2.4	4.8	5.2	13.3	49.2	.0	1.8	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	*	*	.0	*	.1	*	*	.0	.0	.2	.4	
	4-10	.1	.0	*	*	.1	.2	.2	.5	.0		1.2	
	11-21	.2	*	.0	.1	.0	.0	.1	.4	.0		.8	
	22+	*	.0	.0	.1	.0	.0	.0	*	.0		.1	
	TOT %	.4	*	*	.2	.1	.2	.4	1.0	.0	.2	2.5	
1/2<1	0-3	.0	.0	.0	.0	.0	*	.0	.0	.0	*	.1	
	4-10	.1	.0	.0	.1	.1	.1	.1	.2	.0		.5	
	11-21	.1	.0	.0	.0	.0	.0	*	.2	.0		.4	
	22+	.1	.0	.0	.0	.0	.0	.0	.0	.0		.1	
	TOT %	.2	.0	.0	.1	.1	.1	.1	.4	.0	*	1.0	
1<2	0-3	*	.0	.0	*	.0	.0	.0	.0	.0	*	.1	
	4-10	*	*	*	*	*	.1	.1	.2	.0		.7	
	11-21	.1	*	.0	*	.1	*	.1	.2	.0		.5	
	22+	*	.0	.0	.0	.0	.0	.0	.1	.0		.1	
	TOT %	.2	*	*	.1	.1	.2	.2	.5	.0	*	1.3	
2<5	0-3	*	.0	.0	*	*	*	*	.1	.0	.1	.3	
	4-10	.1	*	*	.1	.1	.1	.4	.4	.0		1.3	
	11-21	.3	.0	.0	.1	.1	.1	.2	.7	.0		1.5	
	22+	.1	.0	.0	*	*	.0	*	.3	.0		.5	
	TOT %	.5	*	*	.2	.3	.3	.7	1.6	.0	.1	3.6	
5<10	0-3	.1	.1	.1	.2	.2	.1	.2	.1	.0	.3	1.4	
	4-10	.8	.1	.1	.4	.8	.8	1.3	2.4	.0		6.7	
	11-21	2.6	.1	*	.3	.5	.3	1.2	6.2	.0		11.3	
	22+	1.8	*	.0	*	.1	.1	.4	3.7	.0		6.0	
	TOT %	5.3	.3	.2	.9	1.5	1.3	3.1	12.4	.0	.3	25.4	
10+	0-3	.2	.1	*	.1	.2	.1	.3	.5	.0	1.3	2.8	
	4-10	2.8	.3	.2	.6	1.5	2.1	4.0	6.9	.0		18.3	
	11-21	7.0	.2	.1	.3	1.0	.9	3.7	16.3	.0		29.5	
	22+	4.8	*	*	*	.1	*	.9	9.7	.0		15.6	
	TOT %	14.6	.6	.4	1.0	2.7	3.2	8.9	33.4	.0	1.3	66.2	
	TOT OBS												4762
	TOT PCT	21.2	1.0	.7	2.5	4.9	5.3	13.4	49.3	.0	1.9	100.0	

MAY

PERIOD: (PRIMARY) 1941-1973
(OVER-ALL) 1875-1973

AREA 0035 SAN FRANCISCO
36.9N 123.0W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET,NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00&03	3.1	.5	2.5	7.2	16.4	8.4	1.8	.0	.4	.2	40.4	59.6	844
06&09	4.3	.3	2.2	6.0	15.1	11.0	1.6	.5	.2	.3	41.6	58.4	866
12&15	3.8	.2	4.1	9.0	21.1	11.7	1.6	.4	.1	.6	52.6	47.4	812
18&21	3.1	.6	2.8	9.4	19.4	9.1	1.8	.6	.4	.1	47.4	52.6	815
TOT	119	14	96	263	598	335	57	12	9	11	1514	1823	3337
PCT	3.6	.4	2.9	7.9	17.9	10.0	1.7	.4	.3	.3	45.4	54.6	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00&03	2.8	.9	1.4	3.1	25.6	66.2	1195
06&09	3.0	1.0	.8	2.9	21.8	70.5	1223
12&15	2.8	1.4	1.8	4.4	26.5	63.1	1253
18&21	1.6	.9	1.2	4.1	27.8	64.5	1174
TOT	124	51	63	175	1231	3201	4845
PCT	2.6	1.1	1.3	3.6	25.4	66.1	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET,NH >4/8), BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	3.0	6.3	14.5	27.1	58.4	826
06&09	4.1	6.9	14.2	28.9	56.9	845
12&15	3.9	8.7	19.4	34.4	46.2	797
18&21	3.1	6.7	18.3	30.2	51.5	808
TOT	116	233	543	986	1747	3276
PCT	3.5	7.1	16.6	30.1	53.3	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
70/74	.1	.0	.0	*	.0	.1	.0	.0	5	.2
65/69	.0	*	*	*	.2	.4	.1	*	26	.9
60/64	.0	.0	*	.2	1.8	3.1	2.6	.7	254	8.3
55/59	.0	.0	.1	.3	2.1	12.1	19.1	7.9	1266	41.5
50/54	.0	.0	*	.1	2.5	7.0	23.5	14.8	1463	48.0
45/49	.0	.0	.0	.0	.0	.2	.6	.5	36	1.2
40/44	.0	.0	.0	.0	.0	.0	.0	*	1	*
TOTAL	2	1	5	20	199	695	1400	729	3051	100.0
PCT	.1	*	.2	.7	6.5	22.8	45.9	23.9		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
*	.0	.0	.0	*	*	.0	.1	.0	*
.2	.0	.0	.0	.0	.0	.2	.4	.0	.0
1.3	.1	.1	.3	.6	.9	1.6	3.3	.0	.2
8.5	.4	.4	1.1	2.8	2.3	5.3	19.9	.0	.8
11.9	.5	.2	.6	1.1	1.3	6.0	25.7	.0	.7
.3	.0	.0	.0	.0	*	.2	.7	.0	.0
.0	.0	.0	.0	.0	.0	.0	*	.0	.0
22.3	1.0	.6	2.0	4.5	4.5	13.3	50.1	.0	1.6

TABLE 15

MEANS,EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00&03	75	66	63	56	51	50	46	56.2	1254
06&09	70	63	60	54	50	49	43	54.5	1262
12&15	68	61	59	54	50	48	42	53.6	1316
18&21	74	68	63	56	51	49	46	56.2	1197
TOT	75	65	61	55	50	49	42	55.2	5029

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00&03	.0	1.0	8.9	28.6	43.5	18.0	82	766
06&09	.0	.3	4.0	19.3	48.0	27.9	85	798
12&15	.0	.3	3.7	17.1	48.6	30.4	86	794
18&21	.3	1.3	9.4	26.5	44.2	18.2	82	746
TOT	2	26	199	707	1432	738	84	3104

PERIOD: (PRIMARY) 1941-1973
(OVER-ALL) 1875-1973

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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	41 44	45 48	49 52	53 56	57 60	61 64	65 68	69 72	73 76	TOT	W FOG	WO FOG
17/19	.0	.0	.0	.0	.0	.0	.0	*	*	3	.0	.1
14/16	.0	.0	.0	.0	*	*	.1	*	*	10	.0	.2
11/13	.0	.0	.0	.0	.1	.2	.3	.1	.0	28	.0	.7
9/10	.0	.0	.0	.0	.2	.6	.1	*	.0	40	.1	.9
7/8	.0	.0	.0	.3	.7	.9	.2	.0	*	87	.2	1.8
6	.0	.0	.0	.3	1.0	.6	.0	*	.0	79	.1	1.7
5	.0	.0	*	.7	1.7	.9	*	*	.0	143	.2	3.2
4	.0	.0	.2	2.0	2.5	.9	.1	.0	.0	243	.5	5.3
3	.0	.0	.3	2.9	2.1	.4	*	*	.0	241	.4	5.3
2	.0	.0	1.4	5.4	4.3	.7	*	.0	.0	496	1.0	10.8
1	.0	.0	1.3	5.5	2.7	.2	.0	.0	.0	407	.7	9.0
0	*	*	3.2	9.9	3.3	.7	.0	*	.0	720	1.1	16.1
-1	.0	*	2.8	6.8	1.5	.1	.0	*	.0	473	.9	10.4
-2	.0	*	3.2	7.0	1.4	.1	.0	.0	.0	495	.7	11.1
-3	.0	.1	2.1	3.6	.5	.1	*	.0	.0	266	.6	5.7
-4	.0	.1	1.8	2.3	.3	.0	.0	.0	.0	188	.3	4.1
-5	.0	.1	1.2	1.5	.1	.0	.0	.0	.0	120	.3	2.6
-6	*	*	.8	.7	*	.0	.0	.0	.0	64	.2	1.4
-7/-8	*	.1	.6	.7	*	.0	.0	.0	.0	59	.2	1.2
-9/-10	*	*	.2	.1	.0	.0	.0	.0	.0	16	*	.4
-11/-13	.0	*	.2	.2	.0	*	.0	.0	.0	18	*	.4
TOTAL	4	26	806	2090	941	274	40	12	3	4196	319	3877
PCT	.1	.6	19.2	49.8	22.4	6.5	1.0	.3	.1	100.0	7.6	92.4

PERIOD: (OVER-ALL) 1963-1973

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.6	.0	.0	.0	.0	.7
1-2	.0	1.3	1.2	.0	.0	.0	2.5
3-4	.0	1.1	2.5	.3	.0	.0	3.8
5-6	.0	.2	3.1	.8	.1	.0	4.3
7	.0	.0	1.8	1.8	.1	.0	3.7
8-9	.0	.1	.8	1.2	.3	.0	2.5
10-11	.0	.0	.3	1.0	.3	.0	1.6
12	.0	.0	.0	.3	.1	.0	.4
13-16	.0	.0	.2	.5	.1	.0	.8
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.1	3.3	9.9	5.9	1.0	.0	20.3

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.1	.0	.0	.0	.0	.2
1-2	.0	.2	*	.0	.0	.0	.2
3-4	.0	.3	.1	.0	.0	.0	.4
5-6	.0	.0	.2	.0	.0	.0	.2
7	.0	.0	*	.0	.0	.0	*
8-9	.0	.0	*	.0	.0	.0	*
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.1	.0	.0	.0	.1
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.1	.5	.4	.0	.0	.0	1.1

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.1	.0	.0	.0	.0	.1
1-2	.0	.1	.0	.0	.0	.0	.1
3-4	.0	.1	.0	.0	.0	.0	.1
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.1	.0	.0	.1
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.2	.0	.1	.0	.0	.3

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.3	.1	.0	.0	.0	.3
1-2	.0	.5	.1	.0	.0	.0	.7
3-4	.0	.1	.1	.0	.0	.0	.2
5-6	.0	.1	.0	.0	.0	.0	.1
7	.0	.0	*	.1	.0	.0	.1
8-9	.0	.0	.0	*	.0	.0	*
10-11	.0	.0	.0	*	.0	.0	*
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	1.0	.3	.1	.0	.0	1.4

PERIOD: (OVER-ALL) 1963-1973

MAY

AREA 0035 SAN FRANCISCO
36.9N 123.6W

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

	S							SW						
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.7	.2	.0	.0	.0	1.0	.2	.9	.3	.0	.0	.0	1.3
1-2	.0	.9	.4	.0	.0	.0	1.3	.2	.9	*	.0	.0	.0	1.1
3-4	.0	.1	.5	.0	.0	.0	.5	.2	.3	.3	.0	.0	.0	.8
5-6	.0	.1	.0	.0	.0	.0	.1	.0	.0	.2	.0	.0	.0	.2
7	.0	.0	.1	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	.1
8-9	.0	.1	.0	.1	.0	.0	.1	.0	.0	.1	.0	.0	.0	.1
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.1	1.8	1.3	.1	.0	.0	3.2	.9	2.0	1.0	.0	.0	.0	3.5

	W							NW							TOTAL
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	PCT
<1	.2	.9	.2	.0	.0	.0	1.3	.1	1.5	.2	.0	.0	.0	1.8	
1-2	.1	1.9	2.6	.0	.0	.0	4.7	.2	2.9	3.7	.0	.0	.0	6.8	
3-4	.0	1.2	2.2	1.5	.0	.0	4.9	.1	2.6	7.1	2.6	.0	.0	12.3	
5-6	.0	.2	1.3	.2	.0	.0	1.7	.1	1.1	8.0	3.3	.1	.0	12.6	
7	.0	.1	.4	.4	.0	.0	.9	.0	.2	4.6	3.1	.1	.0	7.9	
8-9	.0	.1	.1	.2	.0	.0	.3	.0	.1	1.7	3.4	.3	.0	5.4	
10-11	.0	.0	.1	.1	.0	.0	.2	.0	.2	.6	2.4	.3	.0	3.4	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7	*	.0	.7	
13-16	.0	.1	.1	.0	.0	.0	.1	.0	.1	.0	1.2	.5	.0	1.8	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.2	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.3	4.4	7.0	2.5	.0	.0	14.1	.4	8.5	25.9	16.7	1.3	.0	52.9	96.8

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	4.1	5.0	1.1	.0	.0	.0	10.2	
1-2	.4	8.7	8.2	.0	.0	.0	17.3	
3-4	.2	5.6	12.7	4.4	.0	.0	22.9	
5-6	.1	1.6	12.8	4.4	.2	.0	19.1	
7	.0	.3	6.9	5.3	.2	.0	12.8	
8-9	.0	.3	2.7	4.8	.5	.0	8.5	
10-11	.0	.2	1.0	3.6	.6	.0	5.3	
12	.0	.0	.0	1.0	.2	.0	1.1	
13-16	.0	.2	.2	1.7	.6	.0	2.7	
17-19	.0	.0	.0	.2	.0	.0	.2	
20-22	.0	.0	.1	.0	.0	.0	.1	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	4.8	21.9	45.6	25.3	2.3	.0	100.0	1238

PERIOD: (OVER-ALL) 1949-1973

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	1.4	8.4	14.4	6.9	4.6	2.0	.6	.3	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1160	4
6-7	*	1.5	5.6	8.2	6.9	4.1	2.3	.6	.6	.1	.2	*	.0	.0	.0	.0	.0	.0	.0	897	6
8-9	*	.4	1.6	2.8	3.5	2.8	2.2	1.0	1.2	.1	.2	.0	.0	.0	.0	.0	.0	.0	.0	474	8
10-11	.0	.2	.5	.8	1.0	1.2	1.5	.8	.9	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	213	9
12-13	.0	.0	.5	.2	.1	.4	.3	.2	.2	.2	*	.0	.0	.0	.0	.0	.0	.0	.0	63	9
>13	.0	.0	.0	.1	*	.1	.1	.1	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	18	10
INDET	2.3	.5	.8	.5	.7	.2	.1	.2	.1	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	162	3
TOTAL	114	328	699	582	504	324	212	96	100	13	14	1	0	0	0	0	0	0	0	2987	6
PCT	3.8	11.0	23.4	19.5	16.9	10.8	7.1	3.2	3.3	.4	.5	*	.0	.0	.0	.0	.0	.0	.0	100.0	

JUNE

PERIOD: (PRIMARY) 1945-1973
(OVER-ALL) 1858-1973

AREA 0035 SAN FRANCISCO
36.9N 123.6W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA				
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	.2	.1	2.2	.0	.0	.0	.0	2.4	.4	.0	6.3	.3	5.7		.0	84.9
NE	.5	.0	1.0	.0	.0	.0	.0	1.6	.5	.0	8.8	.0	7.3		.0	81.9
E	.0	.0	4.0	.0	.0	.0	.0	4.0	3.5	.0	26.6	1.2	4.6		.0	60.1
SE	5.5	.0	5.9	.0	.0	.0	.0	11.4	1.6	.9	21.4	.5	.9		.0	63.4
S	1.8	.0	4.5	.0	.0	.0	.0	6.3	1.6	.0	24.2	1.6	4.1		.0	62.2
SW	.5	.3	2.8	.0	.0	.0	.0	3.6	.9	.0	22.0	.1	5.1		.0	68.3
W	.5	.4	2.9	.0	.0	.0	.0	3.8	.8	.0	14.3	.8	6.6		.0	73.7
NW	.3	.2	2.1	.0	.0	.0	.0	2.5	.7	*	7.3	.4	5.2		.1	83.8
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	.0
CALM	.0	.0	5.6	.0	.0	.0	.0	5.6	.0	.0	27.8	1.4	5.6		.0	59.7
TOT PCT	.5	.2	2.5	.0	.0	.0	.0	3.1	.7	*	9.9	.5	5.4		*	80.4
TOT OBS:	4961															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA				
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00&03	.0	.1	1.2	.0	.0	.0	.0	1.2	.5	.0	9.3	.3	8.5		.0	80.1
06&09	.4	.1	3.4	.0	.0	.0	.0	3.8	.8	.1	8.6	.5	3.0		2	83.1
12&15	1.0	.2	3.9	.0	.0	.0	.0	5.0	.8	.0	9.4	.2	3.1		.0	81.4
18&21	.5	.2	1.9	.0	.0	.0	.0	2.6	.7	.1	12.5	.9	7.2		.0	76.1
TOT PCT	.5	.2	2.6	.0	.0	.0	.0	3.2	.7	*	10.0	.5	5.4		*	80.2
TOT OBS:	5031															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)						
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	.3	3.4	11.0	7.4	.6	*		22.6	18.7	19.0	18.7	25.7	22.8	23.8	26.0	23.4	20.4
NE	.1	.4	.4	.1	.0	.0		1.0	12.2	.4	1.6	1.6	1.0	1.0	1.1	.8	.9
E	.2	.6	.1	.0	.0	.0		.9	5.6	.6	.9	.7	.4	.8	2.0	1.5	.6
SE	.3	1.5	.4	*	.0	.0		2.3	7.9	1.7	2.3	1.2	2.0	2.5	2.8	3.4	2.7
S	.4	2.3	1.0	.1	.0	.0		3.7	8.7	3.8	4.8	1.8	3.7	2.4	2.4	6.1	5.4
SW	.4	2.9	1.2	*	.0	.0		4.5	8.5	4.3	5.3	4.0	5.4	3.4	4.8	4.6	5.7
W	.5	6.0	4.4	.7	*	.0		11.7	11.2	12.8	12.3	11.1	11.5	11.9	10.2	10.7	13.1
NW	.7	10.5	29.1	14.2	1.1	*		51.7	17.4	56.0	53.4	53.1	52.3	51.8	49.0	46.7	49.9
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.7							1.7	.0	1.5	.8	1.0	1.0	2.4	1.7	2.8	1.4
TOT OBS	244	1488	2342	1218	91	2	5385		15.6	923	400	945	421	943	418	831	504
TOT PCT	4.5	27.6	43.5	22.6	1.7	*		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	1.4	7.6	10.9	2.7	.1		22.6	18.7	18.9	24.8	24.5	22.3
NE	.3	.5	.2	*	.0		1.0	12.2	.7	1.4	1.1	.8
E	.7	.2	*	.0	.0		.9	5.6	.7	.6	1.2	1.2
SE	1.0	1.1	.1	.0	.0		2.3	7.9	1.9	1.5	2.6	3.1
S	1.3	2.1	.2	.0	.0		3.7	8.7	4.1	2.4	2.4	5.8
SW	1.7	2.6	.2	.0	.0		4.5	8.5	4.6	4.4	3.8	5.0
W	2.8	7.0	1.6	.2	.0		11.7	11.2	12.7	11.2	11.4	11.6
NW	4.2	20.3	22.0	5.0	.2		51.7	17.4	55.2	52.8	50.9	47.9
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	1.7						1.7	.0	1.3	1.0	2.2	2.2
TOT OBS	808	2229	1904	427	17	5385		15.6	1323	1366	1361	1335
TOT PCT	15.0	41.4	35.4	7.9	.3		100.0		100.0	100.0	100.0	100.0

JUNE

PERIOD: (PRIMARY) 1945-1973
(OVER-ALL) 1858-1973

AREA 0035 SAN FRANCISCO
36.9N 123.0W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	1.3	2.4	25.1	45.0	24.5	1.7	.0	16.2	100.0	1323
06&09	1.0	3.2	24.9	44.8	24.1	2.0	.1	16.2	100.0	1366
12&15	2.2	2.6	28.7	42.2	22.1	2.1	.1	15.4	100.0	1361
18&21	2.2	3.1	31.8	41.9	19.8	1.0	.0	14.5	100.0	1335
TOT	90	154	1488	2342	1218	91	2	15.6		5385
PCT	1.7	2.9	27.6	43.5	22.6	1.7	*		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	8.4	1.7	4.2	9.3		4.7
NE	.2	.1	.1	.5		5.5
E	.2	*	.1	.7		6.2
SE	.4	*	.3	1.6		6.3
S	.4	.1	.5	2.5		6.7
SW	.5	.3	.6	2.5		6.4
W	3.3	.8	1.7	5.2		5.2
NW	20.5	4.5	9.2	18.0		4.4
VAR	.0	.0	.0	.0		.0
CALM	.2	.1	.2	1.2		6.6
TOT OBS	1289	282	639	1558	3768	4.8
TOT PCT	34.2	7.5	17.0	41.3	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.6	.2	1.1	3.3	4.6	1.9	.5	.1	.1	*	11.2	
NE	*	.0	.1	*	.2	.1	*	.0	.0	.0	.4	
E	.2	.1	*	.1	.2	.1	.0	.0	.0	.0	.3	
SE	.3	*	.1	.2	.8	.3	.1	*	*	.0	.6	
S	.5	.1	.2	.5	.9	.4	.1	.1	*	*	.7	
SW	.7	*	.1	.3	1.1	.5	.1	*	*	*	1.2	
W	.8	.1	.4	1.0	2.2	1.4	.3	*	*	*	4.7	
NW	1.7	.2	2.0	5.5	9.3	4.6	1.0	.2	.1	.2	27.4	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.3	.1	.1	.3	.4	.3	.1	.0	.0	.0	.3	
TOT OBS	192	27	158	422	738	360	76	15	12	13	1755	3768
TOT PCT	5.1	.7	4.2	11.2	19.6	9.6	2.0	.4	.3	.3	46.6	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM) * OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >50YD	* OR >0
* OR >6500	.4	.6	.7	.7	.7	.7	.7	.7
* OR >5000	.6	1.0	1.0	1.1	1.1	1.1	1.1	1.1
* OR >3500	1.7	2.9	3.1	3.1	3.1	3.1	3.1	3.1
* OR >2000	8.8	12.3	12.7	12.8	12.8	12.8	12.8	12.8
* OR >1000	20.1	30.9	32.0	32.2	32.3	32.3	32.3	32.3
* OR >600	25.1	41.0	42.7	43.1	43.3	43.4	43.4	43.4
* OR >300	26.3	44.2	46.5	47.2	47.4	47.5	47.5	47.6
* OR >150	26.5	44.5	47.1	47.8	48.0	48.2	48.2	48.3
* OR > 0	26.6	45.4	48.5	49.8	50.6	51.8	52.9	53.3
TOTAL	1012	1730	1845	1894	1926	1971	2015	2030

TOTAL NUMBER OF OBS: 3807 PCT FREQ NH <5/8: 46.7

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
24.5	7.4	7.8	3.9	2.8	3.2	4.8	7.4	33.6	4.5	3904

PERIOD: (PRIMARY) 1965-1973
(OVER-ALL) 1858-1973

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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	PCP	.0	.0	.0	*	*	*	*	.1	.0	.0	.2	
<1/2	NO PCP	.3	*	.1	.2	.2	.3	.6	1.0	.0	.1	2.8	
	TOT %	.3	*	.1	.2	.2	.4	.6	1.1	.0	.1	3.0	
	PCP	.0	.0	.0	.0	.0	*	.0	.0	.0	.0	*	
1/2<1	NO PCP	.2	*	*	.1	.1	.1	.4	.6	.0	.1	1.7	
	TOT %	.2	*	*	.1	.1	.2	.4	.6	.0	.1	1.8	
	PCP	.1	.0	*	*	.1	.0	.1	.1	.0	.0	.3	
1<2	NO PCP	.2	.0	*	*	.2	.2	.2	.4	.0	*	1.2	
	TOT %	.3	.0	.1	*	.2	.2	.2	.5	.0	*	1.5	
	PCP	.1	.0	*	.1	.1	*	.1	.3	.0	.0	.6	
2<5	NO PCP	.6	*	.0	.1	.1	.2	.4	1.3	.0	.1	2.8	
	TOT %	.7	*	*	.1	.2	.2	.5	1.5	.0	.1	3.5	
	PCP	.3	*	.0	.2	.1	.1	.2	.6	.0	.1	1.4	
5<10	NO PCP	7.0	.4	.3	.5	1.2	1.2	3.0	14.4	.0	.4	28.4	
	TOT %	7.3	.4	.3	.7	1.3	1.2	3.2	15.0	.0	.5	29.8	
	PCP	.1	.0	.0	*	*	*	.1	.2	.0	*	.4	
10+	NO PCP	14.3	.5	.4	1.0	1.4	2.2	6.6	33.0	.0	.6	60.0	
	TOT %	14.4	.5	.4	1.0	1.4	2.2	6.7	33.1	.0	.6	60.4	
	TOT OBS												4956
	TOT PCT	23.1	1.0	.9	2.2	3.4	4.4	11.6	51.8	.0	1.4	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	0-3	*	*	*	*	*	*	*	*	.0	.1	.4	
<1/2	4-10	.1	.0	.1	.1	.2	.3	.3	.5	.0		1.6	
	11-21	.1	.0	.0	*	*	*	.2	.6	.0		1.1	
	22+	*	.0	.0	.0	.0	.0	.0	.1	.0		.2	
	TOT %	.3	*	.1	.2	.2	.4	.6	1.2	.0	.1	3.2	
	0-3	*	.0	.0	*	.)	*	*	.1	.0	.1	.4	
1/2<1	4-10	.1	*	*	*	*	.1	.1	.2	.0		.5	
	11-21	.1	.0	.0	*	.1	.1	.2	.3	.0		.7	
	22+	*	*	.0	.0	.0	.0	.0	.1	.0		.1	
	TOT %	.2	*	*	.1	.2	.2	.3	.6	.0	.1	1.7	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	*	
1<2	4-10	.1	*	.1	*	.1	.1	.2	.2	.0		.8	
	11-21	.1	.0	.0	*	.1	.1	.1	.2	.0		.6	
	22+	.1	.0	.0	.0	.0	.0	*	.2	.0		.3	
	TOT %	.3	*	.1	*	.2	.2	.2	.6	.0	*	1.7	
	0-3	.0	.0	.0	.0	*	*	*	.1	.0	.1	.2	
2<5	4-10	.3	*	*	.1	.1	.2	.3	.6	.0		1.5	
	11-21	.5	*	.0	*	.1	.1	.2	.9	.0		1.9	
	22+	.2	*	.0	.0	.0	.0	*	.4	.0		.6	
	TOT %	.9	.1	*	.1	.2	.3	.5	1.9	.0	.1	4.1	
	0-3	.1	*	.1	.1	.1	.1	.2	.1	.0	.5	1.3	
5<10	4-10	1.0	.2	.2	.5	.9	.8	1.6	2.9	.0		8.0	
	11-21	3.5	.1	*	.1	.3	.3	1.1	7.2	.0		12.7	
	22+	2.5	.1	.0	.0	.0	*	.2	4.4	.0		7.2	
	TOT %	7.1	.4	.3	.7	1.3	1.2	3.1	14.6	.0	.5	29.2	
	0-3	.1	.1	.1	.1	.1	.2	.3	.4	.0	.6	2.0	
10+	4-10	1.9	.2	.3	.8	1.0	1.4	3.4	6.0	.0		14.9	
	11-21	6.8	.2	*	.2	.4	.7	2.5	16.0	.0		26.8	
	22+	5.3	*	.0	*	*	.0	.5	10.4	.0		16.2	
	TOT %	14.1	.5	.4	1.1	1.5	2.3	6.8	32.8	.0	.6	60.0	
	TOT OBS												5195
	TOT PCT	22.9	1.0	.9	2.2	3.6	4.5	11.6	51.8	.0	1.4	100.0	

JUNE

PERIOD: (PRIMARY) 1965-1973
(OVER-ALL) 1858-1973

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00&03	3.7	.3	3.9	9.0	18.5	9.0	2.4	.1	.4	.6	47.9	52.1	947
06&09	4.7	.6	3.7	9.2	18.2	7.8	2.1	.9	.2	.3	47.1	52.9	1005
12&15	5.7	.7	3.7	12.6	20.0	10.9	1.7	.4	.1	.0	55.9	44.1	938
18&21	6.2	1.1	5.2	13.5	20.6	11.2	2.0	.6	.5	.4	61.3	38.7	966
TOT	195	27	159	423	745	373	79	15	12	13	2043	1813	3856
PCT	5.1	.7	4.1	11.0	19.3	9.7	2.0	.4	.3	.3	53.0	47.0	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00&03	2.7	1.8	1.3	3.5	31.4	59.2	1298
06&09	3.1	1.1	1.9	3.4	26.1	64.4	1339
12&15	3.3	1.5	1.6	4.3	29.3	60.0	1316
18&21	4.0	2.5	1.8	5.6	30.6	55.5	1313
TOT	173	92	87	221	1544	3149	5266
PCT	3.3	1.7	1.7	4.2	29.3	59.8	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET, NH >4/8), BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	3.7	8.3	19.0	29.8	51.1	935
06&09	4.7	9.6	20.4	27.6	52.0	993
12&15	6.0	11.1	25.2	32.2	42.6	923
18&21	6.5	13.8	28.6	34.2	37.2	956
TOT	199	407	837	1177	1743	3807
PCT	5.2	10.7	23.3	30.9	45.8	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
75/79	.0	.0	.0	*	.1	.0	.0	.0	4	.1
70/74	.0	.0	*	*	.1	.1	.0	.0	8	.2
65/69	.0	.0	.1	.3	.8	1.3	.6	.3	116	3.3
60/64	.0	.0	.1	.1	1.3	5.1	6.5	2.4	546	15.6
55/59	.0	.0	*	.1	.9	9.5	33.6	17.5	2162	61.6
50/54	.0	.0	.0	*	.2	1.2	7.8	9.9	672	19.1
45/49	.0	.0	.0	.0	.0	.0	.0	.1	2	.1
TOTAL	0	0	7	21	119	602	1704	1057	3510	100.0
PCT	.0	.0	.2	.6	3.4	17.2	48.5	30.1		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
*	.0	.0	.0	*	*	*	*	.0	.0
.0	.0	.0	.0	*	*	.1	.1	.0	.0
.6	*	.1	*	.2	.2	.5	1.6	.0	.1
3.9	.2	.2	.3	.5	1.1	2.3	6.8	.0	.2
16.0	.7	.5	1.6	2.2	2.3	6.0	31.6	.0	.8
3.6	.2	.2	.4	.6	.8	2.4	10.7	.0	.3
*	.0	.0	.0	.0	.0	.0	*	.0	.0
24.1	1.1	.9	2.3	3.5	4.4	11.4	50.8	.0	1.5

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00&03	77	70	66	58	54	52	46	58.4	1335
06&09	78	69	63	56	52	50	46	56.6	1362
12&15	77	64	61	55	52	50	46	55.9	1371
18&21	76	69	65	57	53	51	48	58.1	1344
TOT	78	68	64	57	52	51	46	57.3	5412

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00&03	.0	1.0	4.9	22.7	49.8	21.6	84	921
06&09	.0	.1	1.6	12.7	50.3	35.4	87	885
12&15	.0	.3	2.5	12.8	47.2	37.2	87	884
18&21	.0	1.7	4.6	20.1	46.0	27.6	85	870
TOT	0	28	121	609	1721	1081	86	3560

PERIOD: (PRIMARY) 1945-1973
(OVER-ALL) 1858-1973

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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	45 48	49 52	53 56	57 60	61 64	65 68	69 72	73 76	77 80	TOT	W FOG	WO FOG
20/22	.0	.0	.0	.0	.0	.0	*	*	.0	2	.0	*
17/19	.0	.0	.0	.0	.0	*	*	*	.0	3	.0	.1
14/16	.0	.0	.0	.1	*	.2	*	.1	.0	19	.1	.3
11/13	.0	.0	*	.1	.3	.3	.2	*	.0	41	.1	.8
9/10	.0	.0	.3	.3	.5	.5	.0	*	.0	73	.1	1.5
7/8	.0	*	.3	1.1	1.1	.5	.1	*	.0	147	.1	3.0
6	.0	.0	.4	1.0	.6	*	.0	*	.0	96	.3	1.8
5	.0	.0	.5	1.9	1.1	.3	*	*	*	184	.4	3.5
4	.0	*	1.4	2.9	2.0	.3	*	.0	*	310	.5	6.0
3	.0	.1	2.3	3.7	.6	.2	.0	.0	.0	326	.7	6.2
2	.0	.2	3.9	5.8	1.6	.2	.0	.0	.0	552	1.2	10.4
1	.0	.3	5.3	4.3	.6	.1	*	*	.0	506	1.1	9.6
0	.0	.6	6.7	6.2	1.3	.2	.0	*	.0	707	1.4	13.6
-1	.0	.7	6.1	3.5	.5	.1	*	.0	.0	516	1.3	9.6
-2	.0	1.1	6.6	2.6	.6	.1	.0	.0	.0	516	1.0	9.9
-3	.0	.4	3.3	1.6	.5	.2	.0	.0	.0	288	.5	5.6
-4	*	.6	2.1	.9	.3	*	.0	.0	.0	189	.5	3.4
-5	*	.2	1.1	.5	.3	*	.0	.0	.0	101	.2	1.9
-6	.0	.3	.6	.5	.0	.0	.0	.0	.0	64	.2	1.1
-7/-8	*	.3	.6	.4	*	.0	.0	.0	.0	61	.2	1.1
-9/-10	.1	*	.2	.1	.0	.0	.0	.0	.0	20	*	.4
-11/-13	.0	.1	.1	.1	.0	.0	.0	.0	.0	13	.1	.2
-14/-16	.0	.0	*	.0	.0	.0	.0	.0	.0	2	.0	*
TOTAL	8	228	1974	1776	560	151	23	13	3	4736	467	4269
PCT	.2	4.8	41.7	37.5	11.8	3.2	.5	.3	.1	100.0	9.9	90.1

PERIOD: (OVER-ALL) 1963-1973

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	.4	.0	.0	.0	.0	.6
1-2	.1	1.4	1.6	.0	.0	.0	3.0
3-4	.0	1.3	4.0	1.3	.0	.0	6.6
5-6	.1	.3	3.0	1.3	*	.0	4.7
7	.0	.2	1.9	1.7	.1	.0	3.8
8-9	.0	.0	.4	1.1	.1	.0	1.6
10-11	.0	.0	.4	.4	.1	.0	.8
12	.0	.0	.1	.2	.1	.0	.4
13-16	.0	.0	*	.3	.1	.0	.4
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.4	3.5	11.3	6.4	.4	.0	22.0

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.1	.0	.0	.0	.0	.1
1-2	.0	*	.1	.0	.0	.0	.1
3-4	.0	*	.3	.0	.0	.0	.3
5-6	.0	.0	.1	.0	.0	.0	.1
7	.0	.0	.1	.0	.0	.0	.1
8-9	.0	.0	*	.0	.0	.0	*
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.1	.6	.0	.0	.0	.7

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.4	.0	.0	.0	.0	.6
1-2	.0	.2	.1	.0	.0	.0	.2
3-4	*	.4	.0	.0	.0	.0	.4
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	1.0	.1	.0	.0	.0	1.3

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	.8	.0	.0	.0	.0	1.0
1-2	.0	.8	.2	.0	.0	.0	1.0
3-4	*	.2	.2	.0	.0	.0	.4
5-6	.0	.1	.0	.0	.0	.0	.1
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	1.8	.4	.0	.0	.0	2.5

PERIOD: (OVER-ALL) 1963-1973 JUNE AREA 0035 SAN FRANCISCO

TABLE 18 (CONT) 36.9N 123.6W

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

S

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.9	.0	.0	.0	.0	1.1
1-2	.1	.7	.6	.0	.0	.0	1.4
3-4	*	.5	.2	.0	.0	.0	.8
5-6	.0	.2	.0	.0	.0	.0	.2
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.1	.0	.0	.1
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	2.4	.8	.1	.0	.0	3.6

SW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	1.1	.3	.0	.0	.0	1.6
1-2	.0	.8	.3	.0	.0	.0	1.0
3-4	.1	.3	.2	.0	.0	.0	.5
5-6	.1	.2	.0	.0	.0	.0	.2
7	.0	.0	.1	.0	.0	.0	.1
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.5	2.3	.9	.0	.0	.0	3.6

W

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	2.0	.3	.0	.0	.0	2.5
1-2	*	2.5	2.3	.0	.0	.0	4.9
3-4	.0	1.3	1.3	.3	.0	.0	3.0
5-6	.0	.3	.3	*	.0	.0	.7
7	.0	.1	.3	.1	.0	.0	.4
8-9	.0	.0	.1	.0	.0	.0	.1
10-11	.0	.0	.1	.0	.0	.0	.1
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	6.2	4.7	.4	.0	.0	11.6

NW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.5	2.4	.3	.0	.0	.0	3.3	
1-2	.2	4.1	4.5	.0	.0	.0	8.8	
3-4	.0	3.1	8.1	3.3	.0	.0	14.6	
5-6	.0	.6	6.7	2.4	.1	.0	9.8	
7	.0	.3	4.4	3.1	.3	.0	8.2	
8-9	.0	.1	1.3	2.2	.1	.0	3.7	
10-11	.0	.0	.4	1.7	.2	.0	2.3	
12	.0	.0	*	.6	.1	.1	.8	
13-16	.0	.0	*	.6	.0	.0	.7	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.7	10.6	25.9	13.9	.9	.1	52.1	97.2

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	4.1	8.2	.9	.0	.0	.0	13.2	
1-2	.4	10.5	9.6	.0	.0	.0	20.5	
3-4	.4	7.1	14.3	5.0	.0	.0	26.9	
5-6	.1	1.6	10.1	3.8	.2	.0	15.8	
7	.0	.6	6.7	4.9	.4	.0	12.5	
8-9	.0	.1	1.9	3.4	.2	.0	5.6	
10-11	.0	.0	.9	2.0	.3	.0	3.2	
12	.0	.0	.1	.8	.2	.1	1.2	
13-16	.0	.0	.1	.9	.1	.0	1.1	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	5.0	28.1	44.7	20.8	1.3	.1	100.0	1618

PERIOD: (OVER-ALL) 1949-1973 TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	1.4	9.3	17.9	7.8	3.8	1.7	.5	.2	.1	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	1487	4
6-7	*	1.0	7.4	7.0	5.7	3.1	1.8	.5	.7	.3	.0	.0	*	.0	.0	.0	.0	.0	.0	953	6
8-9	*	.3	2.0	2.3	4.0	3.1	1.8	.9	1.0	.1	*	*	*	.0	.0	.0	.0	.0	.0	538	7
10-11	.0	.5	.5	.5	.8	1.0	1.0	.5	.5	.2	*	*	*	.0	.0	.0	.0	.0	.0	192	8
12-13	.0	.0	.3	.3	.3	.2	.3	.4	.2	*	*	.0	.0	.0	.0	.0	.0	.0	.0	70	8
>13	.0	.0	.0	.1	.2	.1	.1	.1	.1	.1	*	.0	.0	.0	.0	.0	.0	.0	.0	28	10
INDET	3.3	.7	.6	.3	.4	.3	.1	.1	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	205	2
TOTAL	164	412	1000	631	528	330	196	92	87	25	4	2	2	0	0	0	0	0	0	3473	5
PCT	4.7	11.9	28.8	18.2	15.2	9.5	5.6	2.6	2.5	.7	.1	.1	.1	.0	.0	.0	.0	.0	.0	100.0	

JULY

PERIOD: (PRIMARY) 1940-1973
(OVER-ALL) 1858-1973

AREA 0035 SAN FRANCISCO
36.9N 123.5W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA				
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	.3	*	2.1	.0	.0	.0	.0	2.4	.8	.1	10.8	.3	5.6	.1	80.0
NE	1.5	.8	1.9	.0	.0	.0	.0	4.2	.0	.0	11.1	.0	3.4	.0	81.2
E	6.3	1.6	2.4	.0	.0	.0	.0	10.3	3.2	.0	19.8	.0	6.3	.0	60.3
SE	.3	1.1	3.7	.0	.0	.0	.0	5.1	.3	.0	21.1	.0	5.7	.0	67.8
S	.3	.0	2.4	.0	.0	.0	.0	2.7	.3	.0	26.6	.4	6.8	.0	63.1
SW	.0	.4	5.9	.0	.0	.0	.0	6.3	.0	.4	28.4	.6	5.3	.0	59.2
W	.2	.0	1.8	.0	.0	.0	.0	1.9	.0	.1	21.0	1.1	6.7	.0	69.2
NW	.3	.1	1.8	.0	.0	.0	.0	2.1	.4	*	12.4	.4	5.6	.1	79.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.8	.8	3.4	.0	.0	.0	.0	5.1	.8	.0	33.9	3.4	6.8	.0	50.0
TOT PCT	.3	.1	2.2	.0	.0	.0	.0	2.6	.4	.1	15.2	.5	5.8	.1	75.3
TOT OBS:	4969														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA				
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00&03	.2	.0	1.2	.0	.0	.0	.0	1.4	.3	.1	12.5	.7	7.6	.2	77.1
06&09	.3	.2	2.0	.0	.0	.0	.0	2.5	.3	.2	13.3	.3	4.1	.1	78.8
12&15	.6	.3	4.4	.0	.0	.0	.0	5.1	.5	.0	17.7	.4	3.6	.1	72.7
18&21	.2	.0	1.2	.0	.0	.0	.0	1.3	.7	.0	17.4	.5	7.6	.0	72.5
TOT PCT	.3	.1	2.2	.0	.0	.0	.0	2.6	.4	.1	15.4	.5	5.7	.1	75.2
TOT OBS:	5012														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	.5	4.0	11.9	6.6	.2	.0		23.2	17.4	20.6	17.5	28.4	22.1	23.9	23.5	24.2	21.6
NE	.2	.5	.4	.1	*	.0		1.2	11.6	.4	1.0	1.7	.6	1.7	2.1	1.5	.6
E	.2	.3	.1	.0	.0	.0		.6	6.7	.7	.9	.1	.1	.5	1.4	1.1	.5
SE	.2	1.1	.4	.0	.0	.0		1.8	7.9	1.1	.9	.9	2.0	1.4	3.5	3.0	2.1
S	.6	3.0	.8	.0	.0	.0		4.4	7.6	4.4	5.1	2.3	3.9	3.7	4.4	5.6	7.6
SW	.7	3.5	1.2	*	.0	.0		5.4	8.0	5.7	7.2	4.1	4.4	4.7	4.7	4.1	10.0
W	.8	6.3	3.8	.4	*	.0		11.4	10.1	13.8	13.4	9.8	9.6	10.7	11.1	12.0	10.3
NW	1.1	10.8	26.5	10.3	.4	.0		49.1	16.1	51.7	52.3	50.2	53.1	49.2	46.5	45.2	45.0
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	2.8							2.8	.0	1.7	1.7	2.5	4.1	4.3	2.9	3.2	2.3
TOT OBS	384	1608	2458	945	40	0	5435		14.2	961	408	893	394	962	442	847	528
TOT PCT	7.1	29.6	45.2	17.4	.7	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	1.6	8.9	10.9	1.8	*		23.2	17.4	19.6	26.5	23.8	23.2
NE	.3	.7	.1	.1	.0		1.2	11.6	.6	1.4	1.8	1.2
E	.4	.2	*	.0	.0		.6	6.7	.8	.1	.8	.9
SE	.8	1.0	*	.0	.0		1.8	7.9	1.0	1.3	2.0	2.7
S	1.9	2.5	.1	.0	.0		4.4	7.6	4.6	2.8	3.9	6.4
SW	2.3	2.8	.3	*	.0		5.4	8.0	6.1	4.2	4.7	6.4
W	3.2	6.8	1.3	.1	.0		11.4	10.1	13.7	9.7	10.8	11.4
NW	4.5	21.7	20.3	2.6	*		49.1	16.1	51.9	51.1	48.3	45.1
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	2.8						2.8	.0	1.7	3.0	3.8	2.8
TOT OBS	965	2424	1792	251	3	5435		14.2	1369	1287	1404	1375
TOT PCT	17.8	44.6	33.0	4.6	.1		100.0		100.0	100.0	100.0	100.0

JULY

PERIOD: (PRIMARY) 1940-1973
(OVER-ALL) 1858-1973

AREA 0035 SAN FRANCISCO
36.9N 123.5W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	1.7	3.8	28.0	47.7	18.3	.5	.0	14.6	100.0	1369
06&09	3.0	3.7	24.8	46.2	21.4	.9	.0	15.2	100.0	1287
12&15	3.8	4.8	32.0	42.2	16.3	.9	.0	13.6	100.0	1404
18&21	2.8	4.6	33.2	44.9	13.7	.7	.0	13.4	100.0	1375
TOT	194	230	1608	2458	945	40	0	14.2		5435
PCT	2.8	4.2	29.6	45.2	17.4	.7	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	7.8	1.1	3.5	12.5		5.2
NE	.3	*	.2	.7		5.7
E	.1	.0	.1	.4		6.6
SE	.2	.1	.2	1.2		6.8
S	.2	.2	.6	3.1		7.2
SW	.8	.3	.4	3.5		6.4
W	2.8	.5	1.1	7.5		5.8
NW	17.6	2.2	4.9	23.0		4.8
VAR	.0	.0	.0	.0		.0
CALM	.3	.1	.2	2.1		6.8
TOT OBS	1091	167	410	1961	3629	5.3
TOT PCT	30.1	4.6	11.3	54.0	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.8	.4	1.8	4.0	5.9	1.8	.5	.1	*	*	9.5	
NE	*	*	.1	.1	.4	.3	*	.0	*	.0	.4	
E	.1	*	.1	.1	.1	.1	*	.0	.0	.0	.1	
SE	.1	*	.2	.2	.7	.1	*	.0	.0	.0	.3	
S	.3	.1	.3	.9	1.5	.4	*	.1	.1	.0	.5	
SW	.7	.1	.5	.7	1.3	.4	.1	*	*	.1	1.2	
W	1.1	.2	.8	1.4	3.4	1.0	.2	.1	.0	.1	3.7	
NW	2.1	.7	2.8	7.1	10.4	2.9	.7	.1	.1	.1	20.7	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.4	.1	.1	.5	.8	.2	.1	*	.0	.0	.5	
TOT OBS	204	55	242	543	884	266	61	18	10	11	1335	3629
TOT PCT	5.6	1.5	6.7	15.0	24.4	7.3	1.7	.5	.3	.3	36.8	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM) = OR >10	= OR >5	= OR >2	= OR >1	= OR >1/2	= OR >1/4	= OR >50YD	= OR >0
= OR >6500	.4	.5	.6	.6	.6	.6	.6	.6
= OR >5000	.9	1.1	1.1	1.1	1.1	1.1	1.1	1.1
= OR >3500	2.1	2.7	2.8	2.8	2.8	2.8	2.8	2.8
= OR >2000	6.4	9.6	10.0	10.1	10.1	10.1	10.1	10.1
= OR >1000	18.5	32.3	34.0	34.3	34.5	34.5	34.5	34.5
= OR >600	24.0	45.6	48.7	49.1	49.3	49.4	49.4	49.4
= OR >300	25.4	50.5	55.1	55.6	55.8	56.0	56.0	56.0
= OR >150	25.7	51.5	56.5	57.1	57.4	57.5	57.6	57.6
= OR > 0	25.9	52.4	58.6	59.9	61.3	62.2	63.0	63.2
TOTAL	942	1908	2135	2182	2234	2267	2294	2302

TOTAL NUMBER OF OBS: 3642 PCT FREQ NH <5/8: 36.8

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
21.2	5.8	5.1	2.3	1.9	2.2	4.1	5.7	46.9	4.7	3782

PERIOD: (PRIMARY) 1940-1973
(OVER-ALL) 1858-1973

AREA 0035 SAN FRANCISCO
36.9N 123.5W

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	PCP	.0	.0	.0	.0	.0	*	*	.1	.0	.0	.1	
<1/2	NO PCP	.5	*	.1	.1	.1	.1	.5	1.0	.0	.2	2.7	
	TOT %	.5	*	.1	.1	.1	.1	.5	1.1	.0	.2	2.8	
	PCP	*	.0	.0	*	.0	.1	.0	*	.0	.0	.2	
1/2<1	NO PCP	.5	.1	.0	*	.1	.6	.6	1.1	.0	.1	3.1	
	TOT %	.5	.1	.0	.1	.1	.7	.6	1.1	.0	.1	3.3	
	PCP	*	.0	.0	.0	*	.1	*	*	.0	.0	.1	
1<2	NO PCP	.1	.0	.0	.1	.3	.2	.3	.7	.0	.1	1.8	
	TOT %	.2	.0	.0	.1	.3	.3	.3	.7	.0	.1	1.9	
	PCP	.1	*	*	.0	*	*	*	.2	.0	*	.5	
2<5	NO PCP	1.0	.1	.1	.1	.3	.5	.9	2.4	.0	.3	5.7	
	TOT %	1.1	.1	.1	.1	.3	.5	.9	2.6	.0	.4	6.2	
	PCP	.3	*	*	.1	.1	.1	.1	.6	.0	.1	1.4	
5<10	NO PCP	8.3	.4	.2	.9	2.2	2.2	3.7	15.5	.0	.8	34.1	
	TOT %	8.6	.4	.3	1.0	2.2	2.3	3.8	16.1	.0	.8	35.4	
	PCP	.1	*	*	.0	.0	*	*	.2	.0	*	.3	
10+	NO PCP	12.9	.7	.2	.5	1.4	1.5	5.2	26.9	.0	.8	50.1	
	TOT %	13.0	.7	.2	.5	1.4	1.5	5.2	27.1	.0	.8	50.5	
	TOT OBS												4964
	TOT PCT	23.9	1.3	.6	1.8	4.5	5.5	11.4	48.7	.0	2.4	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	0-3	*	.1	*	*	*	*	*	.1	.0	.3	.6	
<1/2	4-10	.1	.0	*	*	.1	.1	.4	.4	.0		1.2	
	11-21	.3	*	.0	.0	.0	*	.1	.6	.0		1.0	
	22+	*	.0	.0	.0	.0	*	*	.1	.0		.1	
	TOT %	.5	.1	*	.1	.1	.2	.5	1.1	.0	.3	2.9	
	0-3	*	.0	.0	*	*	.2	*	*	.0	.1	.4	
1/2<1	4-10	.3	*	.0	*	.1	.4	.3	.4	.0		1.6	
	11-21	.2	*	.0	.0	.0	.2	.2	.5	.0		1.1	
	22+	*	.0	.0	.0	.0	.0	.0	.1	.0		.2	
	TOT %	.5	.1	.0	.1	.1	.7	.6	1.1	.0	.1	3.3	
	0-3	.0	.0	.0	.0	*	*	*	*	.0	.1	.2	
1<2	4-10	.1	.0	.0	*	.2	.2	.2	.3	.0		1.0	
	11-21	.1	.0	.0	*	*	*	.1	.4	.0		.8	
	22+	*	.0	.0	.0	.0	.0	*	.1	.0		.2	
	TOT %	.2	.0	.0	.1	.3	.3	.4	.9	.0	.1	2.2	
	0-3	.1	*	*	*	.1	*	.1	.1	.0	.4	.8	
2<5	4-10	.3	.1	.1	.1	.2	.4	.6	.9	.0		2.6	
	11-21	.6	.1	.0	.0	.1	.2	.2	1.7	.0		2.8	
	22+	.4	.0	.0	.0	.0	.0	*	.4	.0		.9	
	TOT %	1.4	.2	.1	.1	.4	.6	1.0	3.1	.0	.4	7.2	
	0-3	.2	*	.1	.1	.3	.2	.2	.3	.0	.9	2.2	
5<10	4-10	1.4	.2	.1	.6	1.4	1.4	2.2	3.5	.0		10.8	
	11-21	4.4	.1	.1	.3	.5	.5	1.2	8.2	.0		15.2	
	22+	2.4	*	.0	.0	.0	*	.1	3.8	.0		6.4	
	TOT %	8.4	.3	.2	.9	2.1	2.2	3.8	15.7	.0	.9	34.6	
	0-3	.2	.1	.1	.1	.1	.2	.3	.5	.0	.9	2.5	
10+	4-10	1.8	.2	.1	.3	.9	.9	2.5	5.1	.0		11.9	
	11-21	6.6	.3	*	.1	.3	.4	2.1	15.2	.0		25.0	
	22+	4.0	.1	.0	.0	.0	.0	.3	6.1	.0		10.5	
	TOT %	12.6	.7	.2	.5	1.3	1.5	5.2	26.9	.0	.9	49.9	
	TOT OBS												5199
	TOT PCT	23.6	1.3	.6	1.7	4.4	5.4	11.4	48.9	.0	2.6	100.0	

JULY

PERIOD: (PRIMARY) 1940-1973
(OVER-ALL) 1858-1973

AREA 0035 SAN FRANCISCO
36.9N 123.5W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET,NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1995	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00&03	3.6	1.5	5.3	12.1	25.9	8.0	1.8	.8	.3	.2	59.5	40.5	932
06&09	5.6	1.0	5.9	11.8	20.3	7.1	1.2	.3	.1	.0	53.2	46.8	917
12&15	7.6	1.6	7.1	17.8	24.6	7.2	1.6	.6	.2	.5	68.7	31.3	886
18&21	5.7	2.2	8.1	17.3	25.8	6.8	2.0	.5	.4	.5	69.4	30.6	948
TOT	206	58	243	543	890	268	61	20	10	11	2310	1373	3683
PCT	5.6	1.6	6.6	14.7	24.2	7.3	1.7	.5	.3	.3	62.7	37.3	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00&03	2.6	3.4	2.2	6.3	33.4	52.2	1294
06&09	3.0	2.8	2.2	6.3	31.9	53.8	1247
12&15	3.1	4.4	2.1	7.5	36.1	46.8	1366
18&21	3.2	2.9	2.3	8.6	36.2	46.7	1336
TOT	157	178	116	376	1807	2609	5243
PCT	3.0	3.4	2.2	7.2	34.5	49.8	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET,NH >4/8),BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	3.7	10.8	25.4	35.1	39.6	927
06&09	5.5	12.6	27.1	27.1	45.9	905
12&15	7.7	16.9	36.8	33.1	30.1	875
18&21	5.8	16.9	37.9	33.9	28.2	935
TOT	205	520	1156	1177	1309	3642
PCT	5.6	14.3	31.7	32.3	35.9	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
80/84	.0	.0	.0	.0	*	.0	.0	.0	1	*
75/79	.0	.0	*	.1	.1	.1	.0	.0	10	.3
70/74	.0	.0	.0	.2	.2	.3	.1	*	26	.7
65/69	.0	.0	.0	.1	.5	1.2	1.2	.6	127	3.6
60/64	.0	.0	.0	.1	1.3	7.6	17.2	5.1	1098	31.3
55/59	.0	.0	.0	.0	.4	4.0	28.3	21.6	1907	54.3
50/54	.0	.0	.0	.0	.0	*	2.8	6.8	338	9.6
45/49	.0	.0	.0	.0	.0	*	.1	.1	5	.1
TOTAL	0	0	1	21	83	464	1744	1199	3512	100.0
PCT	.0	.0	*	.6	2.4	13.2	49.7	34.1		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.0	.0	*	*	.0	.0	.0	.0
*	.0	.0	.0	*	.1	*	*	.0	.0
*	.0	.0	.0	.2	.2	.1	.3	.0	*
.7	.1	*	.1	.3	.2	.4	1.8	.0	.1
8.3	.6	.2	.5	1.3	1.2	3.7	14.7	.0	.8
13.0	.5	.3	1.1	1.8	2.1	5.5	28.7	.0	1.4
1.7	.1	.1	.2	.5	.7	1.3	4.4	.0	.6
.0	.0	.0	.0	*	.1	.0	*	.0	.0
23.8	1.3	.6	1.9	4.1	4.6	11.0	50.0	.0	2.8

TABLE 15

MEANS,EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00&03	77	71	66	59	55	52	50	59.7	1372
06&09	77	65	63	58	53	52	49	58.0	1290
12&15	79	66	62	57	53	51	49	57.2	1413
18&21	80	72	66	59	54	52	50	59.5	1381
TOT	80	70	64	58	53	52	49	58.6	5456

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00&03	.0	1.3	2.7	20.6	53.5	21.9	84	890
06&09	.0	.2	1.8	9.2	48.2	40.6	88	828
12&15	.0	.0	1.1	6.6	48.7	43.7	89	927
18&21	.0	.9	3.8	16.6	48.0	30.6	86	891
TOT	0	22	83	468	1734	1209	87	3536

PERIOD: (PRIMARY) 1940-1973
(OVER-ALL) 1858-1973

AREA 0030 SAN FRANCISCO
36.9N 123.5W

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	49 52	53 56	57 60	61 64	65 68	69 72	73 76	77 80	TOT	W FOG	WO FOG
17/19	.0	.0	.0	.0	.0	.0	*	.0	1	.0	*
14/16	.0	.0	.0	*	.0	.2	.1	*	15	*	.3
11/13	.0	.0	.0	.2	.4	*	*	.1	34	.1	.7
9/10	.0	.0	.3	.4	.3	.2	*	.0	55	.1	1.1
7/8	.0	*	.9	1.2	.6	.2	.1	.0	137	.2	2.8
6	.0	.1	1.0	1.1	.4	.1	.0	.0	121	.3	2.3
5	.0	.4	1.5	1.4	.6	.2	*	.0	189	.5	3.6
4	*	.7	2.5	2.6	.4	.1	*	.0	298	.6	5.8
3	*	.9	3.3	2.0	.5	*	.0	.0	315	.6	6.2
2	.1	1.9	5.5	3.5	.3	*	.0	*	531	1.6	9.9
1	.1	3.1	5.5	2.0	.1	.0	.0	*	500	1.7	9.1
0	.2	3.5	8.5	3.1	*	*	*	.0	713	2.2	13.2
-1	.4	3.5	5.4	1.4	*	.0	.0	.0	499	2.0	8.7
-2	.3	3.2	4.7	1.0	*	.0	*	.0	431	1.8	7.5
-3	.3	2.1	2.7	.5	*	.0	.0	.0	262	1.3	4.3
-4	.1	1.6	1.8	.4	*	.0	.0	.0	183	.6	3.3
-5	.2	1.1	1.3	.2	.0	*	.0	.0	130	.5	2.3
-6	.1	.7	.9	.1	*	.0	.0	.0	81	.4	1.4
-7/-8	.2	.9	.8	*	*	.0	.0	.0	91	.3	1.6
-9/-10	.0	.3	.3	*	.0	.0	.0	.0	33	.1	.6
-11/-13	*	.2	.1	.0	.0	.0	.0	.0	17	.2	.2
-14/-16	*	.1	.0	.0	.0	.0	.0	.0	5	.0	.1
-17/-19	*	.0	.0	.0	.0	.0	.0	.0	1	*	.0
TOTAL	93	1130	2192	988	172	45	14	8	4642	698	3944
PCT	2.0	24.3	47.2	21.3	3.7	1.0	.3	.2	100.0	15.0	85.0

PERIOD: (OVER-ALL) 1963-1973

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	*	.4	.0	.0	.0	.0	.4
1-2	.1	1.2	1.3	.0	.0	.0	2.5
3-4	.0	1.2	4.4	1.0	.0	.0	6.6
5-6	.0	.5	4.0	1.9	.0	.0	6.4
7	.0	.1	1.6	1.8	.1	.0	3.6
8-9	.0	.0	1.0	1.2	.0	.0	2.2
10-11	.0	.0	.2	.6	*	.0	.8
12	.0	.0	.0	.2	.0	.0	.2
13-16	.0	.0	*	.1	.0	.0	.2
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.1	3.3	12.6	6.8	.1	.0	22.9

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.1	.0	.0	.0	.0	.1
1-2	.1	.2	.3	.0	.0	.0	.6
3-4	.0	.2	*	.0	.0	.0	.2
5-6	.0	.0	.2	.0	.0	.0	.2
7	.0	.0	*	*	.0	.0	*
8-9	.0	.0	*	.1	.1	.0	.1
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.1	.3	.5	.1	.1	.0	1.2

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.1	.0	.0	.0	.0	.2
1-2	.0	*	*	.0	.0	.0	.1
3-4	.0	.1	.0	.0	.0	.0	.1
5-6	.0	.1	.1	.0	.0	.0	.1
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.1	.3	.1	.0	.0	.0	.5

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.5	.2	.0	.0	.0	.7
1-2	.1	.4	.1	.0	.0	.0	.6
3-4	.0	.1	.0	.0	.0	.0	.1
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.1	.0	.0	.0	.1
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.1	1.0	.3	.0	.0	.0	1.5

PERIOD: (OVER-ALL) 1963-1973

JULY

AREA 0035 SAN FRANCISCO
36.9N 123.5W

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

S

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	1.4	.2	.0	.0	.0	1.7
1-2	.1	1.1	.5	.0	.0	.0	1.7
3-4	.0	.1	.0	.0	.0	.0	.1
5-6	.0	.1	.0	.0	.0	.0	.1
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	2.7	.7	.0	.0	.0	3.6

SW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.4	1.0	.2	.0	.0	.0	1.6
1-2	.1	1.2	.2	.0	.0	.0	1.5
3-4	*	.3	.3	.0	.0	.0	.6
5-6	.0	*	.0	.1	.0	.0	.1
7	.0	.1	.0	.0	.0	.0	.1
8-9	.0	.0	.1	.0	.0	.0	.1
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.5	2.6	.8	.1	.0	.0	3.9

W

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.4	1.2	.1	.0	.0	.0	1.7
1-2	.2	3.1	1.4	.0	.0	.0	4.7
3-4	.1	1.5	1.1	.1	.0	.0	2.8
5-6	.0	.3	.6	.1	*	.0	1.1
7	.0	.0	.4	*	.0	.0	.4
8-9	.0	.0	.1	*	.0	.0	.2
10-11	.0	.1	.0	.0	.0	.0	.1
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	*	.0	.0	*
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.7	6.2	3.7	.4	*	.0	11.0

NW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.3	1.1	.1	.0	.0	.0	1.5	
1-2	.4	3.9	5.6	.0	.0	.0	9.9	
3-4	.0	2.0	11.7	2.9	.0	.0	16.6	
5-6	.1	.9	7.3	2.5	.1	.0	10.8	
7	.0	.1	3.4	3.0	.1	.0	6.6	
8-9	.0	.1	1.2	2.0	.1	.0	3.3	
10-11	.0	.0	.8	.6	*	.0	1.4	
12	.0	.0	.1	.5	.0	.0	.6	
13-16	.0	.0	*	.5	.1	.0	.6	
17-19	.0	.0	.0	.1	.0	.0	.1	
20-22	.0	.0	.0	.0	.1	.0	.1	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.8	8.2	30.1	12.1	.4	.0	51.6	96.2

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	5.3	5.8	.7	.0	.0	.0	11.7	
1-2	1.2	11.1	9.4	.0	.0	.0	21.7	
3-4	.1	5.4	17.4	4.1	.0	.0	27.0	
5-6	.1	1.9	12.1	4.6	.1	.0	18.8	
7	.0	.4	5.4	4.8	.1	.0	10.8	
8-9	.0	.1	2.4	3.3	.1	.0	5.9	
10-11	.0	.1	1.0	1.2	.1	.0	2.3	
12	.0	.0	.1	.7	.0	.0	.8	
13-16	.0	.0	.1	.6	.1	.0	.8	
17-19	.0	.0	.0	.1	.0	.0	.1	
20-22	.0	.0	.0	.0	.1	.0	.1	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	6.7	24.8	48.6	19.4	.6	.0	100.0	1672

PERIOD: (OVER-ALL) 1949-1973

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	1.6	10.8	15.0	8.3	3.6	1.6	.3	.2	.3	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	1417	4
6-7	.1	1.3	8.4	7.0	6.5	3.0	1.5	.6	.5	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	982	6
8-9	.0	.6	1.4	3.7	3.3	2.2	1.9	.7	.6	.1	*	.0	.0	.0	.0	.0	.0	.0	.0	491	7
10-11	.0	.3	.2	.7	1.0	.8	.6	.7	.4	.1	*	.0	.0	.0	.0	.0	.0	.0	.0	186	8
12-13	.0	.0	.2	.1	.1	.2	.3	.1	.2	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	42	8
>13	.0	.0	.0	.1	.0	.1	.1	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	19	9
INDET	5.1	1.5	.7	.3	.6	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	284	2
TOTAL	230	490	880	690	511	270	164	80	71	9	6	0	0	0	0	0	0	0	0	3401	5
PCT	6.8	14.4	25.9	20.3	15.0	7.9	4.8	2.4	2.1	.3	.2	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

AUGUST

PERIOD: (PRIMARY) 1939-1973
(OVER-ALL) 1861-1973

AREA 0035 SAN FRANCISCO
36.9N 123.7W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA				
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG	DUST SNOW BLWG	NO SIG WEA
N	.2	.1	2.8	.0	.0	.0	.0	2.9	1.0	.0	8.5	.4	4.8	.2		82.3
NE	.0	.0	1.0	.0	.0	.0	.0	1.0	1.0	.0	12.4	.0	4.5	.0		81.1
E	.0	.0	2.9	.0	.0	.0	.0	2.9	.0	.0	22.9	.0	.0	.0		74.3
SE	.0	3.4	3.4	.0	.0	.0	.0	6.8	1.7	.0	20.5	.0	11.5	.0		59.4
S	2.1	7.5	3.7	.0	.0	.0	.0	13.3	.0	.0	28.8	.0	4.3	.0		53.6
SW	.5	.0	1.6	.0	.0	.0	.0	2.2	.7	.0	24.2	.2	6.3	.0		66.4
W	.5	.0	1.3	.0	.0	.0	.0	1.8	.7	.5	20.7	1.1	2.9	.0		72.3
NW	.2	.0	1.8	.0	.0	.0	.0	1.9	.5	.1	12.6	.5	5.2	*		79.3
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0
CALM	1.1	.0	5.7	.0	.0	.0	.0	6.8	1.1	1.1	33.0	2.3	4.5	.0		52.3
TOT PCT	.3	.3	2.1	.0	.0	.0	.0	2.6	.6	.1	13.9	.6	4.9	.1		77.2
TOT OBS:	4334															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA				
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG	DUST SNOW BLWG	NO SIG WEA
00&03	.5	.3	.5	.0	.0	.0	.0	1.2	.5	.3	12.6	.5	6.7	.1		78.4
06&09	.4	.4	2.1	.0	.0	.0	.0	2.7	.7	.2	11.9	.3	3.5	.0		80.6
12&15	.0	.4	4.2	.0	.0	.0	.0	4.6	.9	.1	15.1	.3	3.3	.1		75.6
18&21	.3	.1	1.5	.0	.0	.0	.0	1.8	.5	.0	15.8	1.3	6.0	.1		74.5
TOT PCT	.3	.3	2.1	.0	.0	.0	.0	2.6	.6	.1	13.9	.6	4.9	.1		77.3
TOT OBS:	4370															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	.4	4.2	13.8	5.5	.2	.0		24.0	16.7	22.3	19.1	27.4	21.7	25.0	23.[illegible]	27.7	19.9
NE	.2	.5	.4	*	.0	.0		1.1	9.3	1.1	.7	1.6	.4	.5	1.5	1.4	1.1
E	.1	.3	.1	.0	.0	.0		.5	7.0	.4	.4	.0	.9	.5	.9	.4	.9
SE	.2	.8	.3	.1	.0	.0		1.4	8.2	1.0	1.5	.7	2.1	1.1	3.2	1.9	1.7
S	.5	1.7	.8	.1	.0	.0		3.1	8.2	2.4	3.3	1.4	3.3	2.7	5.1	4.5	4.1
SW	.5	2.0	.8	*	.0	.0		3.3	8.0	3.7	3.6	2.7	4.5	3.0	2.5	3.0	3.7
W	1.1	6.0	4.3	.4	.0	.0		11.8	10.2	13.2	14.8	11.0	11.6	11.5	12.4	10.8	10.4
NW	1.2	12.9	28.4	9.7	.3	.0		52.4	15.5	59.9	55.1	52.4	54.1	53.4	48.4	46.9	56.3
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	2.3							2.3	.0	2.1	1.6	2.7	1.5	2.3	2.1	3.2	1.8
TOT OBS	311	1375	2358	763	22	0	4829		14.1	856	372	829	336	858	380	710	488
TOT PCT	6.4	28.5	48.8	15.8	.5	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	1.6	10.1	11.2	1.1	*		24.0	16.7	21.3	25.8	24.7	24.5
NE	.4	.5	.1	.0	.0		1.1	9.3	1.0	1.3	.8	1.3
E	.3	.2	*	.0	.0		.5	7.0	.4	.3	.6	.6
SE	.8	.6	.1	.0	.0		1.4	8.2	1.1	1.1	1.7	1.9
S	1.5	1.3	.3	.0	.0		3.1	8.2	2.6	2.0	3.4	4.4
SW	1.5	1.6	.2	.0	.0		3.3	8.0	3.7	3.2	2.8	3.3
W	3.4	6.9	1.4	.1	.0		11.8	10.2	13.7	11.2	11.8	10.7
NW	5.0	24.1	21.4	2.0	*		52.4	15.5	54.3	52.9	51.9	50.7
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	2.3						2.3	.0	2.0	2.3	2.3	2.7
TOT OBS	808	2184	1685	151	1	4829		14.1	1228	1165	1238	1198
TOT PCT	16.7	45.2	34.9	3.1	*		100.0		100.0	100.0	100.0	100.0

PERIOD: (PRIMARY) 1939-1973
(OVER-ALL) 1861-1973

AUGUST

AREA 0035 SAN FRANCISCO
36.9N 123.7W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	2.0	3.3	28.3	50.2	15.7	.6	.0	14.5	100.0	1228
06&09	2.3	3.2	26.4	48.3	19.4	.4	.0	14.9	100.0	1165
12&15	2.3	4.4	28.5	49.5	14.9	.4	.0	13.9	100.0	1238
18&21	2.7	5.7	30.7	47.2	13.3	.4	.0	13.2	100.0	1198
TOT	111	200	1375	2358	763	22	0	14.1		4829
PCT	2.3	4.1	28.5	48.8	15.8	.5	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	9.4	1.3	3.9	10.8		4.7
NE	.5	*	.2	.5		4.4
E	.1	.0	.1	.1		5.8
SE	.3	*	.1	.6		5.3
S	.5	.1	.3	1.8		6.3
SW	.7	.3	.5	1.7		5.6
W	3.7	.7	1.3	5.8		5.0
NW	21.7	2.9	6.8	20.8		4.3
VAR	.0	.0	.0	.0		.0
CALM	.4	.1	.2	1.6		6.3
TOT OBS	1129	167	405	1322	3023	4.7
TOT PCT	37.3	5.5	13.4	43.7	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

000 149	150 299	300 599	600 999	1000 1999	2000 2499	2500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
.9	.2	1.7	4.0	4.1	2.6	.2	.1	.0	.1	11.5	
.0	.0	*	.2	.2	.1	*	.0	.0	*	.6	
.1	.0	*	*	.0	*	.0	.0	.0	.0	.1	
.1	*	.1	.2	.2	.1	.0	.0	.0	.0	.4	
.5	*	.3	.3	.6	.1	.1	.0	*	.0	.7	
.3	.0	.1	.3	.8	.4	.1	*	*	.0	1.1	
.8	.2	.7	1.0	2.0	1.1	.5	*	.1	.1	5.0	
2.9	.4	3.0	7.0	7.7	3.8	.6	.1	.2	.3	26.2	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
.5	.1	.1	.3	.5	.3	*	.0	.0	.0	.5	
185	28	103	403	486	256	51	10	9	16	1396	3029
6.1	.9	6.1	13.3	16.1	8.5	1.7	.3	.3	.5	46.2	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM) * OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >50YD	* OR >0
* OR >6500	.4	.8	.8	.8	.8	.8	.8	.8
* OR >5000	.6	1.1	1.2	1.2	1.2	1.2	1.2	1.2
* OR >3500	1.6	2.4	2.8	2.8	2.8	2.8	2.8	2.8
* OR >2000	7.0	10.3	11.1	11.2	11.2	11.2	11.2	11.2
* OR >1000	15.5	25.2	27.0	27.2	27.3	27.3	27.3	27.3
* OR >600	20.5	37.3	40.2	40.5	40.6	40.7	40.7	40.7
* OR >200	22.2	41.7	45.9	46.4	46.6	46.7	46.7	46.7
* OR >130	22.3	42.2	46.6	47.1	47.5	47.6	47.7	47.7
* OR > 0	22.4	43.1	48.1	49.3	50.8	51.6	53.2	53.7
TOTAL	680	1304	1456	1494	1538	1562	1610	1627

TOTAL NUMBER OF OBS: 3029

PCT FREQ NH <5/8: 46.2

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
27.2	7.8	5.5	3.1	2.3	2.4	4.0	6.4	36.3	5.1	3160

PERIOD: (PRIMARY) 1939-1973
(OVER-ALL) 1861-1973

AREA 0035 SAN FRANCISCO
36.9N 123.7W

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	*	*	.0	*	.1	.0	.1	.3	
	NO PCP	.4	*	*	.1	.2	.3	.7	1.8	.0	.2	3.8	
	TOT %	.4	*	*	.1	.2	.3	.8	1.9	.0	.3	4.1	
1/2<1	PCP	.2	.0	.0	.0	*	.0	.0	*	.0	.0	.2	
	NO PCP	.4	*	.0	.1	.1	.1	.4	1.2	.0	.1	2.4	
	TOT %	.6	*	.0	.1	.1	.1	.4	1.2	.0	.1	2.5	
1<2	PCP	.1	.0	.0	.0	*	.0	.0	.1	.0	.0	.2	
	NO PCP	.2	*	*	.1	.2	*	.2	.8	.0	.1	1.7	
	TOT %	.3	*	*	.1	.2	*	.2	.9	.0	.1	1.9	
2<5	PCP	.2	*	*	*	*	*	.1	.3	.0	*	.6	
	NO PCP	1.2	*	*	.1	.3	.2	.9	2.3	.0	.2	5.2	
	TOT %	1.3	*	*	.1	.3	.2	1.0	2.5	.0	.2	5.8	
5<10	PCP	.3	.0	.0	*	.3	.1	.1	.4	.0	*	1.2	
	NO PCP	7.7	.4	.1	.5	.8	1.0	3.4	16.1	.0	.5	30.6	
	TOT %	8.0	.4	.1	.5	1.1	1.1	3.5	16.6	.0	.6	31.8	
10+	PCP	.1	.0	.0	.0	.0	.0	*	.1	.0	.0	.2	
	NO PCP	13.9	.6	.2	.5	.8	1.4	5.9	29.6	.0	.8	53.7	
	TOT %	14.0	.6	.2	.5	.8	1.4	5.9	29.7	.0	.8	53.9	
	TOT OBS												4325
	TOT PCT	24.5	1.1	.4	1.4	2.8	3.2	11.9	52.7	.0	2.0	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	*	.0	.0	*	.1	.1	.1	.1	.0	.3	.8	
	4-10	.1	*	*	.1	.1	.1	.4	.8	.0		1.8	
	11-21	.2	.0	.0	.0	*	*	.2	.9	.0		1.3	
	22+	.1	.0	.0	.0	.0	.0	.0	.2	.0		.3	
	TOT %	.4	*	*	.1	.2	.3	.7	1.9	.0	.3	4.2	
1/2<1	0-3	*	.0	.0	.0	*	.1	.1	*	.0	.1	.4	
	4-10	.1	*	.0	.0	*	.1	.1	.4	.0		.8	
	11-21	.3	*	.0	.1	*	.0	.2	.6	.0		1.1	
	22+	.1	.0	.0	.0	.0	.0	*	.1	.0		.2	
	TOT %	.5	*	.0	.1	.1	.1	.4	1.2	.0	.1	2.5	
1<2	0-3	.0	*	.1	*	*	*	.1	*	.0	.1	.4	
	4-10	.1	.0	.0	*	.1	*	.2	.4	.0		.8	
	11-21	.2	*	.0	*	*	.0	.1	.5	.0		.8	
	22+	.1	.0	.0	.0	.0	.0	.0	.1	.0		.2	
	TOT %	.3	*	.1	.1	.2	.1	.3	1.0	.0	.1	2.2	
2<5	0-3	.1	*	.0	*	.1	*	.1	.1	.0	.2	.7	
	4-10	.3	*	*	*	.1	.2	.5	1.0	.0		2.1	
	11-21	.9	.0	*	.1	.1	*	.4	1.8	.0		3.3	
	22+	.3	.0	.0	.0	.0	.0	*	.4	.0		.7	
	TOT %	1.6	*	*	.1	.3	.2	1.0	3.2	.0	.2	6.8	
5<10	0-3	*	*	*	*	.1	.1	.3	.2	.0	.5	1.4	
	4-10	1.4	.2	.1	.3	.6	.7	1.9	3.5	.0		8.6	
	11-21	4.8	.1	*	.1	.4	.2	1.1	3.7	.0		15.5	
	22+	1.7	*	.0	.1	.1	*	.1	3.7	.0		5.7	
	TOT %	7.9	.4	.1	.5	1.1	1.1	3.4	16.2	.0	.5	31.2	
10+	0-3	.3	.1	*	.1	.1	*	.3	.6	.0	.8	2.3	
	4-10	2.3	.2	.1	.2	.6	.9	2.7	6.5	.0		13.5	
	11-21	7.7	.3	*	.1	.2	.4	2.5	16.3	.0		27.6	
	22+	3.5	*	.0	.0	.0	*	.2	5.9	.0		9.7	
	TOT %	13.8	.6	.2	.5	.8	1.4	5.8	29.9	.0	.8	53.1	
	TOT OBS												4570
	TOT PCT	24.5	1.1	.4	1.4	2.8	3.2	11.7	52.8	.0	2.1	100.0	

AUGUST

PERIOD: (PRIMARY) 1939-1973
(OVER-ALL) 1861-1973

AREA 0035 SAN FRANCISCO
36.9N 123.7W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET,NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00&03	4.5	.8	4.5	12.6	14.0	8.6	1.5	.5	.4	1.0	48.3	51.7	780
06&09	5.0	.5	4.4	9.8	12.9	7.9	1.3	.0	.1	.2	42.2	57.8	823
12&15	7.6	.8	6.5	13.6	19.5	8.6	1.8	.3	.4	.3	59.4	40.6	734
18&21	7.1	1.6	8.7	16.9	17.7	8.4	2.0	.5	.3	.5	63.8	36.2	746
TOT	185	28	184	405	490	258	51	10	9	16	1636	1447	3083
PCT	6.0	.9	6.0	13.1	15.9	8.4	1.7	.3	.3	.5	53.1	46.9	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00&03	4.0	3.1	1.4	5.5	32.6	53.4	1170
06&09	3.7	2.0	2.0	4.6	26.9	60.7	1123
12&15	4.7	3.4	2.2	7.9	29.8	51.9	1160
18&21	4.2	1.7	3.3	8.9	35.6	46.2	1153
TOT	192	118	102	311	1441	2442	4606
PCT	4.2	2.6	2.2	6.8	31.3	53.0	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET,NH >4/8),BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	4.3	10.1	24.3	25.7	50.0	764
06&09	5.1	10.7	22.8	20.9	56.3	803
12&15	7.9	15.6	32.4	28.1	39.4	725
18&21	7.2	16.3	38.9	26.6	34.5	737
TOT	184	411	891	764	1374	3029
PCT	6.1	13.6	29.4	25.2	45.4	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
75/79	.0	.0	.0	.1	.1	.1	*	.0	11	.3
70/74	.0	.0	*	.1	.1	.4	.2	*	28	.9
65/69	.0	.0	.0	.1	.4	2.3	3.3	1.5	243	7.6
60/64	.0	.0	.0	.0	.5	6.9	24.3	13.5	1450	45.2
55/59	.0	.0	.0	.0	.1	1.7	19.1	19.1	1286	40.1
50/54	.0	.0	.0	.0	.0	*	.8	5.0	188	5.9
45/49	.0	.0	.0	.0	.0	.0	*	*	2	.1
TOTAL	0	0	1	11	39	368	1531	1258	3208	100.0
PCT	.0	.0	*	.3	1.2	11.5	47.7	39.2		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
	.1	.0	*	*	.0	*	.1	.1	.0	*
	.3	.0	.0	*	*	*	.2	.4	.0	.0
	2.1	.2	.1	.1	.3	.4	1.1	3.1	.0	.2
	12.7	.6	.2	.3	.8	1.0	4.7	24.1	.0	.8
	9.5	.3	*	.8	1.1	1.2	4.0	22.3	.0	.9
	1.1	.0	*	.1	.2	.4	1.5	2.1	.0	.4
	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0
	25.7	1.1	.3	1.3	2.6	3.0	11.5	52.0	.0	2.4

TABLE 15

MEANS,EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00&03	81	73	68	60	55	53	48	60.8	1229
06&09	79	69	65	59	54	52	46	59.5	1164
12&15	84	66	64	59	53	51	45	58.7	1242
18&21	83	72	66	60	54	52	46	60.2	1209
TOT	84	72	66	60	54	52	45	59.8	4844

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00&03	.0	1.2	2.3	16.0	51.9	28.6	86	826
06&09	.0	.1	.6	6.8	44.2	48.2	89	803
12&15	.0	.0	.6	6.7	45.6	47.1	90	823
18&21	.0	.3	1.4	16.3	49.2	32.9	86	779
TOT	0	13	40	369	1542	1267	88	3231

PERIOD: (PRIMARY) 1939-1973
(OVER-ALL) 1861-1973

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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	45 48	49 52	53 56	57 60	61 64	65 68	69 72	73 76	77 80	81 84	TOT	W FOG	WO FOG
23/25	.0	.0	.0	.0	.0	.0	.0	.0	*	.0	1	.0	*
17/19	.0	.0	.0	.0	.0	*	*	.0	*	.0	4	*	.1
14/16	.0	.0	.0	.0	*	*	*	*	*	.0	9	*	.2
11/13	.0	.0	.0	*	.2	.2	.3	*	*	.0	36	.0	.9
9/10	.0	.0	.0	.1	.5	.6	.2	.1	*	.0	65	.1	1.5
7/8	.0	.0	.0	.3	1.0	.8	.3	*	.0	.1	107	.2	2.3
6	.0	.0	.1	.7	1.1	.6	.1	*	.0	*	109	.3	2.3
5	.0	.0	.2	1.3	1.7	.7	.1	.0	*	.0	168	.6	3.5
4	.0	.0	.4	2.3	3.2	.8	.1	.1	*	.0	285	.7	6.1
3	.0	.0	.3	2.7	2.3	.5	*	.0	*	.0	247	.7	5.2
2	.0	.1	1.3	4.9	5.6	.7	*	*	*	.0	524	1.8	10.8
1	.0	.1	1.3	5.2	3.7	.6	*	.0	*	.0	450	1.2	9.6
0	*	.1	2.3	6.6	4.6	.6	.0	*	*	.0	592	1.9	12.4
-1	.0	.1	2.2	4.7	3.0	.2	*	.0	.0	.0	425	1.5	8.8
-2	.0	.1	2.2	4.7	2.2	.1	*	.1	.0	.0	390	1.5	7.9
-3	.0	.2	1.2	2.5	1.4	.1	.0	*	.0	.0	228	1.2	4.3
-4	.0	.2	1.1	2.4	1.2	*	.0	.0	.0	.0	204	.7	4.2
-5	.0	.1	.8	1.3	.6	.1	.0	.0	.0	.0	120	.6	2.3
-6	.0	*	.7	.8	*	.0	.0	.0	.0	.0	64	.2	1.4
-7/-8	.0	*	.6	.9	.2	.0	.0	.0	.0	.0	72	.2	1.5
-9/-10	.0	.1	.3	.1	.0	.0	.0	.0	.0	.0	25	.1	.5
-11/-13	.0	*	.1	.1	*	.0	.0	.0	.0	.0	10	*	.2
-14/-16	*	.0	.0	*	.0	.0	.0	.0	.0	.0	3	*	*
-17/-19	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	.0	*
TOTAL	3	58	622	1726	1351	281	57	22	15	4	4139	572	3567
PCT	.1	1.4	15.0	41.7	32.6	6.8	1.4	.5	.4	.1	100.0	13.8	86.2

PERIOD: (OVER-ALL) 1963-1973

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	.3	.0	.0	.0	.0	.5
1-2	.1	1.2	1.0	.0	.0	.0	2.2
3-4	.0	1.5	4.3	.9	.0	.0	6.7
5-6	.0	.2	3.5	1.1	.0	.0	4.9
7	.0	.2	2.4	1.9	.0	.0	4.5
8-9	.0	.2	1.0	1.8	.1	.0	2.9
10-11	.0	.0	.9	.6	.0	.0	1.5
12	.0	.0	.2	.2	.0	.0	.4
13-16	.0	.0	.1	.0	.1	.0	.2
17-19	.0	.0	.1	.1	.0	.0	.2
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	3.6	13.5	6.5	.1	.0	23.9

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.3	.0	.0	.0	.0	.4
1-2	.1	.1	.1	.0	.0	.0	.4
3-4	.1	.1	.1	.0	.0	.0	.2
5-6	.0	*	*	.0	.0	.0	.1
7	.0	.0	*	.0	.0	.0	*
8-9	.0	.1	.0	.0	.0	.0	.1
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	.6	.2	.0	.0	.0	1.1

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.1	.0	.0	.0	.0	.1
3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.1	.0	.0	.0	.1
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.1	.1	.0	.0	.0	.2

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.4	.0	.0	.0	.0	.5
1-2	.1	.4	.2	.0	.0	.0	.7
3-4	.1	.2	.0	.0	.0	.0	.3
5-6	.0	.1	.1	.0	.0	.0	.2
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	1.1	.3	.0	.0	.0	1.6

PERIOD: (OVER-ALL) 1963-1973 AUGUST AREA 0035 SAN FRANCISCO 36.9N 123.7W

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

	S							SW						
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	1.1	.0	.0	.0	.0	1.2	.2	1.4	.1	.0	.0	.0	1.7
1-2	.1	.6	.4	.0	.0	.0	1.0	.0	.7	.8	.0	.0	.0	1.5
3-4	.1	.1	.1	.0	.0	.0	.3	.0	.2	.0	.0	.0	.0	.2
5-6	.0	.1	.1	.0	.0	.0	.2	.0	*	*	.1	.0	.0	.1
7	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.1
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	1.8	.6	.0	.0	.0	2.7	.2	2.5	.9	.1	.0	.0	3.6

	W							NW							TOTAL
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	PCT
<1	.1	1.5	.3	.0	.0	.0	1.9	.6	1.3	.1	.0	.0	.0	2.0	
1-2	.3	2.9	2.5	.0	.0	.0	5.8	.2	4.3	4.0	.0	.0	.0	8.5	
3-4	.0	1.8	1.8	.1	.0	.0	3.8	.0	3.4	10.8	1.6	.0	.0	15.8	
5-6	.0	.3	.3	.1	.0	.0	.8	.0	.9	6.3	2.0	.0	.0	9.2	
7	.0	.1	.3	.1	.0	.0	.4	.0	.3	4.2	3.0	.1	.0	7.6	
8-9	.1	.0	.1	.1	.0	.0	.2	.0	.1	1.4	1.8	[illegible]	.0	3.5	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.4	1.0	.1	.0	2.5	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.3	.0	.0	.5	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	.3	.1	.0	.9	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	*	.0	.0	.1	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.5	6.7	5.3	.4	.0	.0	12.9	.8	10.3	28.8	10.0	.6	.0	50.5	96.5

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	4.9	6.4	.5	.0	.0	.0	11.8	
1-2	1.2	10.3	8.9	.0	.0	.0	20.4	
3-4	.3	7.2	17.1	2.5	.0	.0	27.1	
5-6	.0	1.7	10.2	3.3	.0	.0	15.3	
7	.0	.7	6.9	4.9	.1	.0	12.6	
8-9	.1	.3	2.4	3.7	.3	.0	6.7	
10-11	.0	.0	2.3	1.6	.1	.0	4.0	
12	.0	.0	.3	.5	.0	.0	.8	
13-16	.0	.0	.5	.3	.2	.0	1.0	
17-19	.0	.0	.2	.1	.0	.0	.3	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
								1468
TOT PCT	6.4	26.6	49.4	16.9	.7	.0	100.0	

PERIOD: (OVER-ALL) 1949-1973 TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	1.3	9.5	17.9	8.4	4.5	1.6	.7	.3	.2	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	1267	4
6-7	*	1.2	7.7	8.0	5.3	3.7	1.5	.5	.6	*	.0	*	.0	.0	.0	.0	.0	.0	.0	810	6
8-9	*	.3	2.0	2.8	3.5	3.0	1.5	.3	.5	.1	.1	*	.0	.0	.0	.0	.0	.0	.0	403	7
10-11	.0	.4	.5	.9	.7	1.1	.6	.5	.3	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	146	8
12-13	.0	.0	.4	.5	.2	.2	.3	.2	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	53	7
>13	.0	.0	.0	.1	.1	.0	.1	*	.2	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	15	11
INDET	1.8	1.1	.9	.5	.2	.3	.1	.1	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	145	3
TOTAL	92	352	833	601	411	282	136	55	54	14	7	2	0	0	0	0	0	0	0	2839	5
PCT	3.2	12.4	29.3	21.2	14.5	9.9	4.8	1.9	1.9	.5	.2	.1	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1939-1973
(OVER-ALL) 1857-1973

AREA 0035 SAN FRANCISCO
37.0N 123.0W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	.1	.1	1.3	.0	.0	.0	.1	1.6	.1	.0	8.4	*	5.1	.1		84.6
NE	.0	.6	.0	.0	.0	.0	.0	.6	.6	.0	6.5	1.1	9.7	.0		81.5
E	2.5	1.4	.0	.0	.0	.0	.0	3.9	.0	.0	8.5	1.1	9.2	.0		77.4
SE	3.5	.9	2.6	.0	.0	.0	.0	6.1	.9	.0	16.7	.2	10.7	.0		65.4
S	3.6	1.0	.8	.0	.0	.0	.0	5.4	.4	.0	16.3	.6	11.1	.0		66.2
SW	.6	.6	1.5	.0	.0	.0	.0	2.6	.8	.0	18.7	.5	12.1	.0		65.4
W	.3	.0	1.9	.0	.0	.0	.0	2.2	.2	.2	14.1	.0	12.5	.0		70.8
NW	.1	.1	1.3	.0	.0	.0	.0	1.5	.2	.1	12.5	.4	6.0	.1		79.3
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0
CALM	.0	.0	1.9	.0	.0	.0	.0	1.9	.6	.0	24.1	.0	13.0	.0		60.5
TOT PCT	.4	.2	1.4	.0	.0	.0	*	2.0	.3	.1	12.4	.3	7.5	*		77.5
TOT OBS:	4467															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00&03	.6	.1	1.0	.0	.0	.0	.1	1.7	.2	.0	12.6	.1	8.9		.0	76.5
06&09	.4	.2	1.2	.0	.0	.0	.0	1.8	.4	.2	8.3	.4	5.4		.0	83.5
12&15	.2	.3	2.3	.0	.0	.0	.0	2.7	.4	.1	14.5	.1	5.2		.0	76.9
18&21	.4	.3	1.0	.0	.0	.0	.0	1.7	.2	.0	15.9	.4	10.4		.2	71.2
TOT PCT	.4	.2	1.4	.0	.0	.0	*	2.0	.3	.1	12.8	.3	7.5		*	77.1
TOT OBS:	4537															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)								HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	.8	5.9	12.6	5.3	.6	.0		25.2	16.1	23.5	21.0	29.6	24.3	25.1	26.1	27.3	21.2
NE	.3	.9	.7	.1	*	.0		1.9	9.8	2.0	2.0	1.7	1.1	2.3	2.3	2.0	1.6
E	.4	.7	.3	.0	*	.0		1.4	7.6	1.1	.7	1.5	1.2	1.5	1.9	2.6	.8
SE	.4	1.6	.5	.1	.0	.0		2.6	7.7	2.9	2.2	1.2	2.1	1.5	3.1	4.2	4.5
S	.8	2.7	.7	.1	.0	.0		4.3	7.8	4.5	3.3	3.1	3.6	2.9	4.5	6.9	5.6
SW	.9	3.1	.9	*	.0	.0		4.9	7.4	5.9	3.7	4.6	4.0	4.1	5.7	4.4	6.6
W	1.3	7.0	3.0	.2	*	.0		11.6	8.7	11.8	13.6	9.5	12.3	12.3	9.6	10.8	13.6
NW	1.5	13.8	22.1	6.2	.3	.0		43.9	14.3	45.4	49.2	45.0	47.1	45.4	42.6	35.5	42.9
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	4.2							4.3	.0	2.9	4.2	3.7	4.3	5.0	4.3	6.4	3.3
TOT OBS	519	1768	2016	592	47	0	4942		12.5	857	403	828	399	868	392	704	491
TOT PCT	10.5	35.8	40.8	12.0	1.0	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	2.8	10.9	9.6	1.8	.1		25.2	16.1	22.7	27.9	25.4	24.8
NE	.8	.8	.3	*	.0		1.9	9.8	2.0	1.5	2.3	1.8
E	.8	.5	.1	*	.0		1.4	7.6	1.0	1.4	1.6	1.8
SE	1.3	1.2	.1	.0	.0		2.6	7.7	2.7	1.5	2.0	4.3
S	2.0	2.0	.3	*	.0		4.3	7.8	4.1	3.3	3.4	6.4
SW	2.5	2.1	.2	.0	.0		4.9	7.4	5.2	4.4	4.6	5.3
W	4.5	6.4	.6	*	.0		11.6	8.7	12.4	10.4	11.5	11.9
NW	5.7	22.6	14.0	1.6	*		43.9	14.3	46.6	45.7	44.5	38.6
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	4.2						4.3	.0	3.3	3.9	4.8	5.1
TOT OBS	1220	2298	1248	172	4	4942		12.5	1260	1227	1260	1195
TOT PCT	24.7	46.5	25.3	3.5	.1		100.0		100.0	100.0	100.0	100.0

SEPTEMBER

PERIOD: (PRIMARY) 1939-1973
(OVER-ALL) 1857-1973

AREA 0035 SAN FRANCISCO
37.0N 123.6W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	3.3	5.4	33.7	44.4	12.1	1.1	.0	13.0	100.0	1260
06&09	3.9	5.5	32.9	42.1	14.6	1.1	.0	13.2	100.0	1227
12&15	4.8	7.5	36.7	38.8	11.4	.9	.0	12.2	100.0	1260
18&21	5.1	6.7	39.9	37.7	9.8	.8	.0	11.7	100.0	1195
TOT	211	309	1767	2016	592	47	0	12.5		4942
PCT	4.3	6.3	35.8	40.8	12.0	1.0	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	13.1	1.8	4.3	6.8		3.6
NE	1.0	.1	.2	.6		3.8
E	.6	.1	.3	.6		4.4
SE	.5	.1	.5	1.2		5.8
S	1.1	.4	.7	1.8		5.1
SW	1.3	.5	.8	2.1		5.2
W	4.7	1.0	1.9	3.8		4.2
NW	21.5	2.8	6.9	12.5		3.7
VAR	.0	.0	.0	.0		.0
CALM	1.9	.2	.5	1.6		4.1
TOT OBS	1484	223	525	1004	3236	3.9
TOT PCT	45.9	6.9	16.2	31.0	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.7	.1	.9	2.6	4.3	1.0	.2	*	.1	.1	10.1	
NE	*	*	.1	.2	.3	.1	.0	.0	*	.0	1.1	
E	*	*	.1	.1	.3	.2	.0	.0	*	.0	.8	
SE	.2	.0	.1	.4	.4	.3	*	*	*	.1	.7	
S	.2	*	.2	.5	.8	.3	.1	*	.0	*	1.8	
SW	.5	*	.2	.4	1.1	.3	.1	*	*	*	2.1	
W	.6	.1	.5	1.1	1.7	.7	.1	*	*	.1	6.5	
NW	2.1	.2	1.3	4.0	6.7	2.2	.5	.1	*	.2	20.3	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.5	*	.1	.3	.7	.2	.0	.0	.0	.0	2.3	
TOT OBS	157	17	111	307	533	175	33	8	8	18	1869	3236
TOT PCT	4.9	.5	3.4	9.5	16.5	5.4	1.0	.2	.2	.6	57.8	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM) = OR >10	= OR >5	= OR >2	= OR >1	= OR >1/2	= OR >1/4	= OR >50YD	= OR >0
= OR >6500	.5	.8	.8	.8	.8	.8	.8	.8
= OR >5000	.7	1.0	1.0	1.0	1.0	1.0	1.0	1.0
= OR >3500	1.4	2.0	2.1	2.1	2.1	2.1	2.1	2.1
= OR >2000	4.5	7.1	7.4	7.4	7.4	7.4	7.4	7.4
= OR >1000	13.3	22.3	23.4	23.6	23.7	23.7	23.7	23.7
= OR >600	17.2	31.0	32.7	33.0	33.1	33.2	33.2	33.2
= OR >300	18.3	33.6	36.0	36.4	36.6	36.7	36.7	36.7
= OR >150	18.3	33.9	36.4	36.8	37.1	37.2	37.3	37.3
= OR > 0	18.5	34.4	37.1	38.0	39.4	40.3	41.7	42.1
TOTAL	602	1120	1211	1238	1283	1315	1361	1371

TOTAL NUMBER OF OBS: 3260

PCT FREQ NH <5/8: 57.9

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
39.6	8.1	6.6	4.3	2.9	2.1	5.3	6.5	24.3	4.2	3406

PERIOD: (PRIMARY) 1939-1973
(OVER-ALL) 1857-1973

AREA 0035 SAN FRANCISCO
37.0N 123.6W

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	PCP	*	.0	.0	.0	*	*	.0	*	.0	.0	.1	
<1/2	NO PCP	.7	*	.0	.2	.2	.3	.4	1.8	.0	.4	4.0	
	TOT %	.8	*	.0	.2	.2	.3	.4	1.8	.0	.4	4.1	
	PCP	*	.0	.0	*	*	*	.1	*	.0	*	.2	
1/2<1	NO PCP	.3	*	.1	.2	.1	.4	.5	1.2	.0	.1	2.8	
	TOT %	.4	*	.1	.2	.2	.4	.5	1.2	.0	.1	3.0	
	PCP	.0	.0	.0	*	*	*	*	*	.0	.0	.1	
1<2	NO PCP	.3	*	*	.1	.1	.1	.2	.7	.0	.1	1.5	
	TOT %	.3	*	*	.1	.1	.1	.2	.7	.0	.1	1.6	
	PCP	.1	*	*	*	.1	.0	.1	.1	.0	*	.4	
2<5	NO PCP	1.0	.1	.1	.1	.3	.4	.4	1.3	.0	.3	3.8	
	TOT %	1.0	.1	.1	.1	.4	.4	.5	1.4	.0	.3	4.2	
	PCP	.3	.0	*	.1	*	.1	.1	.4	.0	.0	.9	
5<10	NO PCP	7.1	.5	.5	.8	1.2	1.7	4.1	12.6	.0	.7	29.4	
	TOT %	7.4	.5	.5	.9	1.3	1.7	4.2	13.0	.0	.7	30.3	
	PCP	*	.0	.0	.0	.0	*	*	.1	.0	*	.2	
10+	NO PCP	16.0	1.3	.9	1.2	1.9	2.1	5.5	25.8	.0	2.0	56.5	
	TOT %	16.1	1.3	.9	1.2	1.9	2.1	5.5	25.8	.0	2.0	56.7	
	TOT OBS												4459
	TOT PCT	25.9	2.0	1.6	2.6	4.0	4.9	11.4	44.0	.0	3.6	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	0-3	*	*	.0	*	*	.1	.1	.1	.0	.5	.8	
<1/2	4-10	.4	.0	.0	.1	.2	.2	.3	1.0	.0		2.2	
	11-21	.3	.0	.0	.1	*	*	.1	.8	.0		1.3	
	22+	*	.0	.0	.0	.0	.0	.0	*	.0		*	
	TOT %	.8	*	.0	.2	.3	.3	.4	1.9	.0	.5	4.4	
	0-3	*	*	*	*	.1	*	.1	*	.0	.1	.3	
1/2<1	4-10	.2	*	*	.1	.1	.2	.3	.4	.0		1.3	
	11-21	.2	.0	*	*	*	.1	.2	.7	.0		1.2	
	22+	.0	.0	.0	*	*	.0	.0	.1	.0		.1	
	TOT %	.4	*	.1	.2	.2	.4	.5	1.2	.0	.1	2.9	
	0-3	.0	*	*	*	.0	*	*	*	.0	.1	.2	
1<2	4-10	.1	*	*	.1	.1	.1	.2	.3	.0		1.0	
	11-21	.2	*	.0	.0	*	*	*	.4	.0		.6	
	22+	*	.0	.0	*	*	.0	.0	*	.0		.1	
	TOT %	.3	*	*	.1	.1	.1	.3	.8	.0	.1	1.9	
	0-3	.1	*	*	*	*	.1	.1	.1	.0	.4	.9	
2<5	4-10	.3	*	*	.1	.3	.2	.4	.7	.0		2.0	
	11-21	.5	*	.0	.1	.1	*	.1	.7	.0		1.6	
	22+	.2	*	.0	*	*	.0	.0	.1	.0		.4	
	TOT %	1.2	.1	.1	.1	.4	.4	.5	1.7	.0	.4	4.9	
	0-3	.3	.1	.1	.2	.2	.3	.6	.5	.0	.8	3.1	
5<10	4-10	1.5	.2	.3	.5	.9	1.1	2.5	4.2	.0		11.1	
	11-21	3.5	.2	.1	.2	.2	.4	.9	5.9	.0		11.3	
	22+	1.9	*	.0	*	.1	*	.1	2.2	.0		4.2	
	TOT %	7.2	.5	.5	.9	1.3	1.7	4.1	12.7	.0	.8	29.7	
	0-3	.3	.1	.2	.1	.3	.3	.4	.6	.0	2.2	4.6	
10+	4-10	3.3	.7	.4	.8	1.2	1.3	3.2	7.0	.0		17.9	
	11-21	8.2	.4	.2	.2	.4	.4	1.8	13.7	.0		25.3	
	22+	3.9	*	*	.0	*	*	.1	4.3	.0		8.4	
	TOT %	15.7	1.3	.8	1.2	1.8	2.1	5.5	25.7	.0	2.2	56.2	
	TOT OBS												4688
	TOT PCT	25.5	1.9	1.5	2.6	4.2	4.9	11.3	44.0	.0	4.1	100.0	

SEPTEMBER

PERIOD: (PRIMARY) 1939-1973
(OVER-ALL) 1857-1973

AREA 0035 SAN FRANCISCO
37.0N 123.0W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00&03	4.7	.6	2.9	7.3	15.1	4.6	1.4	.6	.2	.8	38.2	61.8	850
06&09	4.0	.5	2.7	8.0	13.9	6.3	.8	.0	.1	.7	36.9	63.1	877
12&15	4.9	.9	3.6	10.0	16.8	4.0	1.0	.3	.4	.3	42.0	58.0	800
18&21	5.5	.2	4.5	12.2	18.6	6.1	.7	.1	.2	.4	48.6	51.4	814
TOT	159	18	115	311	535	176	33	8	8	18	1381	1960	3341
PCT	4.8	.5	3.4	9.3	16.0	5.3	1.0	.2	.2	.5	41.3	58.7	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00&03	4.2	3.8	2.0	3.2	30.9	55.9	1195
06&09	3.2	2.3	.9	3.5	27.4	62.6	1199
12&15	6.0	3.5	1.6	6.1	29.2	53.6	1224
18&21	4.6	3.4	3.2	6.9	31.1	50.8	1142
TOT	214	156	91	234	1410	2655	4760
PCT	4.5	3.3	1.9	4.9	29.6	55.8	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET, NH >4/8), BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	4.7	8.6	17.3	22.0	60.7	826
06&09	4.1	7.5	17.6	21.1	61.4	849
12&15	5.0	10.7	23.1	21.3	55.7	785
18&21	5.9	11.4	27.4	25.0	47.6	800
TOT	160	310	692	728	1840	3260
PCT	4.9	9.5	21.2	22.3	56.4	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
80/84	.0	*	.1	*	.1	.0	.0	.0	6	.2
75/79	.0	*	.0	.1	*	.3	*	.0	16	.5
70/74	.0	.1	.1	.3	.4	.6	.3	.1	58	1.7
65/69	.0	.0	.1	.3	1.0	3.7	4.6	2.5	403	12.2
60/64	.0	.1	.1	.2	1.7	11.3	23.6	12.8	1652	49.8
55/59	.0	.0	.0	.1	.2	2.6	15.7	12.7	1036	31.2
50/54	.0	.0	.0	.0	*	.1	1.4	2.8	145	4.4
TOTAL	0	6	10	37	108	613	1514	1028	3316	100.0
PCT	.0	.2	.3	1.1	3.3	18.5	45.7	31.0		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.1	*	.0	.0	.0	.0	.0	.1	.0	.0
*	.1	*	.1	.1	*	.1	.1	.0	.0
.4	.1	.1	.0	.2	*	.4	.6	.0	.1
2.8	.2	.2	.2	.6	1.0	1.7	4.9	.0	.7
14.8	1.0	.7	1.3	2.0	2.2	4.7	21.1	.0	1.9
7.6	.6	.6	.7	.9	1.2	3.4	14.8	.0	1.3
.5	*	.1	.1	.1	.3	.8	2.2	.0	.4
26.1	2.0	1.7	2.4	3.8	4.7	11.1	43.8	.0	4.3

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00&03	82	74	69	61	56	53	51	61.8	1272
06&09	82	70	66	60	54	53	51	60.2	1233
12&15	79	69	65	59	54	52	50	59.4	1283
18&21	80	73	68	61	55	52	51	61.4	1211
TOT	82	72	67	60	55	53	50	60.7	4999

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00&03	.0	2.1	4.8	22.8	47.0	23.3	83	834
06&09	.0	.4	1.8	15.3	48.9	33.7	87	852
12&15	.0	1.2	1.8	12.3	43.8	40.9	87	844
18&21	.0	2.9	5.0	23.8	42.4	25.9	83	802
TOT	0	54	111	620	1528	1039	85	3352

SEPTEMBER

PERIOD: (PRIMARY) 1939-1973
(OVER-ALL) 1857-1973

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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	49 52	53 56	57 60	61 64	65 68	69 72	73 76	77 80	81 84	TOT	W FOG	WO FOG
23/25	.0	.0	.0	.0	.0	.0	.0	.0	*	1	.0	*
20/22	.0	.0	.0	.0	.0	.0	.0	*	.0	1	*	.0
17/19	.0	.0	.0	.0	.0	*	*	.1	.0	7	.0	.2
14/16	.0	.0	.0	.0	.1	.2	*	.1	.0	17	.0	.4
11/13	.0	.0	.0	.2	.3	.2	.1	*	*	38	*	.8
9/10	.0	.0	.1	.4	.6	.2	.1	*	.0	56	*	1.3
7/8	.0	.0	.3	1.1	.9	.3	.1	*	*	117	.3	2.4
6	.0	*	.5	1.1	.6	.2	.1	*	.0	106	.2	2.2
5	.0	*	.7	1.8	1.2	.3	*	*	.0	178	.3	3.8
4	.0	.2	1.7	2.5	1.0	.2	*	*	*	242	.6	5.0
3	.0	.2	1.9	2.5	1.2	.1	*	.0	.0	257	.5	5.5
2	.0	.5	3.0	5.2	1.1	.3	*	*	.0	438	1.3	8.8
1	*	1.0	3.4	4.4	1.2	.1	.0	.0	.0	433	1.2	8.8
0	.1	2.0	5.3	5.8	1.0	.1	.0	.0	.0	622	2.1	12.3
-1	.0	2.0	4.3	3.4	.6	.0	.1	.0	.0	446	1.5	8.8
-2	.1	1.9	4.3	3.1	.6	.1	*	.0	.0	436	1.6	8.5
-3	.0	1.2	3.1	2.5	.1	*	.0	.0	.0	300	.8	6.1
-4	.1	.8	2.4	1.3	.2	*	*	.0	.0	215	.9	4.1
-5	.1	.5	1.2	1.1	.1	.0	.0	.0	.0	131	.4	2.6
-6	*	.6	1.4	.2	*	.0	.0	.0	.0	96	.3	1.9
-7/-8	*	.6	1.7	.3	*	.0	.0	.0	.0	117	.3	2.5
-9/-10	*	.5	.3	.1	.0	.0	.0	.0	.0	39	.1	.8
-11/-13	.1	.4	*	*	.0	.0	.0	.0	.0	22	.1	.4
-14/-16	.0	.0	*	.0	.0	.0	.0	.0	.0	1	.0	*
-17/-19	.0	*	*	*	.0	.0	.0	.0	.0	3	.0	.1
TOTAL	27	535	1533	1607	467	97	34	15	4	4319	543	3776
PCT	.6	12.4	35.5	37.2	10.8	2.2	.8	.3	.1	100.0	12.6	87.4

PERIOD: (OVER-ALL) 1963-1973

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.9	.0	.0	.0	.0	1.0
1-2	.0	2.5	2.6	.0	.0	.0	5.1
3-4	.1	1.5	4.9	1.4	.0	.0	7.9
5-6	.0	.5	3.1	1.1	.0	.0	4.7
7	.0	.0	1.5	1.7	.2	.0	3.3
8-9	.0	.0	.5	.7	.1	.0	1.3
10-11	.0	.0	.4	1.1	.1	.0	1.6
12	.0	.0	.1	.1	.1	.0	.3
13-16	.0	.0	.1	.2	.1	.0	.4
17-19	.0	.0	.1	.0	.0	.0	.1
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	5.4	13.2	6.4	.5	.0	25.6

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.4	.0	.0	.0	.0	.5
1-2	.0	.2	.2	.0	.0	.0	.4
3-4	.0	.1	.3	.1	.0	.0	.5
5-6	.1	.0	.2	.0	.0	.0	.2
7	.0	.1	.1	*	*	.0	.2
8-9	.0	.1	*	.0	.0	.0	.1
10-11	.0	.0	.1	.0	.0	.0	.1
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	.9	.8	.1	*	.0	2.0

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.8	.5	.1	.0	.0	.0	1.4
1-2	.0	.1	.1	.0	.0	.0	.2
3-4	.0	.1	.3	.0	.0	.0	.4
5-6	.0	.1	.1	.0	.0	.0	.2
7	.0	.0	.0	.1	.0	.0	.1
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.8	.8	.6	.0	.1	.0	2.2

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.8	*	.0	.0	.0	.9
1-2	.0	.5	.0	.0	.0	.0	.5
3-4	.0	.1	.2	.1	.0	.0	.4
5-6	.0	.1	.0	.0	.0	.0	.1
7	.0	.0	.1	.0	.0	.0	.1
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.1	1.5	.3	.1	.0	.0	2.0

PERIOD: (OVER-ALL) 1963-1973

SEPTEMBER

TABLE 18 (CONT)

AREA 0035 SAN FRANCISCO
37.0N 123.0W

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

S

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.8	.1	.0	.0	.0	.9
1-2	.1	1.0	.2	.0	.0	.0	1.3
3-4	.0	.2	.1	.0	.0	.0	.4
5-6	.0	.0	.1	.0	.0	.0	.1
7	.0	.1	.0	.0	.0	.0	.1
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	2.0	.5	.0	.0	.0	2.7

SW

1-3	4-10	11-21	22-33	34-47	48+	PCT
.2	.9	.0	.0	.0	.0	1.1
.3	1.2	.4	.0	.0	.0	1.8
.0	.5	.5	.0	.0	.0	1.0
.0	.2	.1	.0	.0	.0	.3
.0	.0	.1	.0	.0	.0	.1
.0	.0	.0	.0	.0	.0	.0

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TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	.1	.2	.7	.0	.0	.0	.0	1.0	.3	*	9.3	.4	4.1		.1	84.8
NE	.3	.3	2.3	.0	.0	.0	.0	3.0	.0	.0	8.1	1.5	8.6		.0	78.9
E	1.6	2.6	1.1	.0	.0	.0	.0	5.3	.8	.0	10.1	1.1	11.9		.0	70.9
SE	10.9	.5	8.2	.0	.0	.0	.0	15.7	3.0	.0	12.5	.7	2.1		.0	66.1
S	7.7	1.5	3.7	.0	.0	.0	.0	11.7	2.6	.0	18.0	.3	3.4		.0	64.1
SW	4.5	.8	1.7	.0	.0	.0	.0	6.4	.5	.0	17.1	1.4	3.9		.0	70.8
W	1.3	.2	1.9	.0	.0	.0	.0	3.2	.5	.0	20.0	.8	5.1		.0	70.3
NW	.3	.1	.7	.0	.0	.0	.0	1.1	.2	*	15.0	.3	5.3		*	78.1
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	.0
CALM	.0	.0	1.5	.0	.0	.0	.0	1.5	.0	.0	20.1	.0	11.9		.0	66.4
TOT PCT	1.5	.3	1.5	.0	.0	.0	.0	3.0	.6	*	14.1	.5	5.1		*	76.7
TOT OBS:	4317															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00&03	1.2	.3	1.3	.0	.0	.0	.0	2.5	.5	.0	15.1	.3	6.4		.0	75.1
06&09	1.3	.5	1.2	.0	.0	.0	.0	2.8	.5	.1	12.3	.7	3.5		.0	80.1
12&15	1.6	.6	1.8	.0	.0	.0	.0	3.9	.8	.0	13.9	.6	2.8		.0	78.0
18&21	1.8	.2	1.4	.0	.0	.0	.0	3.0	.4	.0	15.5	.5	7.8		.1	72.7
TOT PCT	1.5	.4	1.4	.0	.0	.0	.0	3.1	.5	*	14.2	.5	5.1		*	76.5
TOT OBS:	4390															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	.7	6.9	12.7	5.6	.6	.0		26.5	16.0	27.3	20.0	26.8	22.6	28.4	28.3	30.2	23.7
NE	.5	1.8	1.0	.1	*	.0		3.3	9.3	2.1	2.2	3.9	2.1	3.5	4.9	4.1	3.7
E	.4	1.3	.4	.1	.0	.0		2.1	8.0	1.5	1.5	1.7	1.3	2.3	4.6	2.3	2.6
SE	.5	1.8	.9	.4	.1	.0		3.7	11.1	3.1	3.0	3.1	3.1	3.4	5.8	4.5	5.0
S	.7	3.2	2.0	.6	.1	.0		6.5	11.3	5.2	7.1	5.9	5.8	5.2	7.3	9.4	7.9
SW	.9	3.4	1.4	.1	*	.0		5.8	8.4	5.9	7.1	4.8	6.2	5.0	4.6	6.1	7.9
W	1.3	7.0	3.0	.2	.0	.0		11.4	8.8	12.4	15.0	11.6	13.9	12.0	7.2	7.9	11.6
NW	1.3	13.2	16.5	4.9	.6	.0		36.4	13.9	40.0	39.9	38.5	39.7	34.5	33.4	31.2	33.9
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	4.1							4.1	.0	2.4	4.1	3.9	5.2	5.6	3.9	4.4	3.7
TOT OBS	499	1871	1835	582	66	0	4853		12.4	862	414	800	382	857	389	634	515
TOT PCT	10.3	38.6	37.8	12.0	1.4	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)				
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	3.2	11.4	9.6	2.2	.1		26.5	16.0	24.9	25.4	28.4	27.3
NE	1.3	1.6	.3	*	.0		3.3	9.3	2.1	3.3	3.9	3.9
E	.9	1.1	.1	*	.0		2.1	8.0	1.5	1.6	3.0	2.4
SE	1.6	1.3	.7	.2	*		3.7	11.1	3.1	3.1	4.2	4.7
S	2.0	3.1	1.2	.2	*		6.5	11.3	5.9	5.9	5.9	8.7
SW	2.6	2.7	.4	.1	.0		5.8	8.4	6.3	5.3	4.9	6.9
W	4.4	6.3	.7	*	.0		11.4	8.8	13.3	12.3	10.5	9.5
NW	5.8	18.7	10.0	1.7	.2		36.4	13.9	39.9	38.9	34.2	32.4
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	4.1						4.1	.0	3.0	4.3	5.1	4.1
TOT OBS	1259	2247	1115	219	13	4853		12.4	1276	1182	1246	1149
TOT PCT	25.9	46.3	23.0	4.5	.3		100.0		100.0	100.0	100.0	100.0

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	3.0	5.2	37.9	39.1	13.7	1.2	.0	13.0	100.0	1276
06&09	4.3	5.2	38.4	38.4	12.2	1.5	.0	12.7	100.0	1182
12&15	5.1	7.1	38.0	37.5	11.2	1.3	.0	12.2	100.0	1246
18&21	4.1	7.4	40.1	36.1	10.8	1.5	.0	11.9	100.0	1149
TOT	199	300	1871	1835	582	66	0	12.4		4853
PCT	4.1	6.2	38.6	37.8	12.0	1.4	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	16.4	3.5	4.5	6.4		3.2
NE	2.2	.3	.5	.7		2.8
E	1.0	.1	.5	.4		3.5
SE	.9	.3	.6	1.3		5.1
S	1.4	.5	1.5	2.7		5.5
SW	1.3	.2	1.2	2.4		5.6
W	3.9	.7	1.9	3.5		4.4
NW	18.1	3.5	5.3	9.3		3.5
VAR	.0	.0	.0	.0		.0
CALM	2.0	.2	.3	1.1		3.4
TOT OBS	1362	265	467	799	2893	3.7
TOT PCT	47.1	9.2	16.1	27.6	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	1.1	.1	1.4	2.2	3.0	1.8	.2	.1	*	.1	21.3	
NE	.1	*	*	.3	.4	.1	.1	*	.0	*	2.6	
E	.1	.0	*	.1	.2	.2	.1	*	.0	.1	1.2	
SE	.2	.0	.1	.4	.4	.3	.1	*	.0	*	1.4	
S	.4	*	.2	.8	1.0	.4	.3	.0	*	.1	2.6	
SW	.3	*	.2	.4	1.2	.4	.2	*	.1	*	2.2	
W	.7	.1	.3	.8	1.8	.4	.3	.1	*	*	5.4	
NW	2.5	.4	1.6	2.3	3.6	1.3	.6	.1	.1	.3	23.3	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.4	.1	*	.2	.4	.1	*	.0	.0	.0	2.4	
TOT OBS	166	22	111	218	346	135	55	12	6	19	1803	2893
TOT PCT	5.7	.8	3.8	7.5	12.0	4.7	1.9	.4	.2	.7	62.3	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM) * OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >50YD	* OR >0
* OR >6500	.5	.9	.9	.9	.9	.9	.9	.9
* OR >5000	.9	1.2	1.3	1.3	1.3	1.3	1.3	1.3
* OR >3500	2.2	3.0	3.2	3.2	3.2	3.2	3.2	3.2
* OR >2000	5.5	7.4	7.8	7.8	7.8	7.8	7.9	7.9
* OR >1000	13.0	18.6	19.5	19.6	19.7	19.7	19.8	19.8
* OR >600	16.5	25.2	26.8	27.0	27.1	27.1	27.2	27.2
* OR >300	17.6	27.9	30.3	30.7	30.9	31.0	31.1	31.1
* OR >150	17.8	28.3	30.8	31.3	31.6	31.7	31.9	31.9
* OR > 0	17.9	29.1	32.4	33.5	34.6	35.6	36.7	37.5
TOTAL	522	848	946	977	1009	1039	1069	1094

TOTAL NUMBER OF OBS: 2916

PCT FREQ NH <5/8: 62.5

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
35.7	9.0	8.5	5.1	2.9	3.0	4.7	6.2	19.8	5.1	3069

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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	PCP	*	.1	.0	*	.1	.0	*	*	.0	.0	.3	
<1/2	NO PCP	.9	*	.1	.2	.6	.3	.6	1.8	.0	.2	4.7	
	TOT %	.9	.1	.1	.2	.6	.3	.6	1.9	.0	.2	4.9	
	PCP	.0	.0	.0	*	.1	*	*	*	.0	.0	.2	
1/2<1	NO PCP	.4	*	.1	.1	.4	.4	.6	1.2	.0	.1	3.2	
	TOT %	.4	*	.1	.1	.5	.4	.6	1.2	.0	.1	3.4	
	PCP	.0	*	.0	.1	.1	.0	*	*	.0	.0	.2	
1<2	NO PCP	.4	*	.0	.1	.1	.1	.5	.5	.0	.1	1.8	
	TOT %	.4	.1	.0	.1	.2	.1	.5	.6	.0	.1	2.0	
	PCP	*	.0	.0	.1	.2	*	.1	.1	.0	.0	.6	
2<5	NO PCP	1.1	.3	.1	.1	.2	.3	.6	1.3	.0	.3	4.2	
	TOT %	1.2	.3	.1	.2	.4	.3	.6	1.4	.0	.3	4.8	
	PCP	.1	*	.1	.1	.3	.2	.2	.2	.0	.0	1.3	
5<10	NO PCP	7.3	1.0	.5	.9	1.6	1.2	2.9	9.7	.0	1.0	26.1	
	TOT %	7.4	1.0	.6	1.0	1.9	1.5	3.1	9.9	.0	1.0	27.4	
	PCP	.1	.0	.0	.1	*	.1	.1	*	.0	*	.4	
10+	NO PCP	17.2	2.0	1.3	1.7	3.1	3.1	6.2	20.9	.0	1.5	57.0	
	TOT %	17.3	2.0	1.3	1.8	3.1	3.2	6.3	20.9	.0	1.6	57.5	
	TOT OBS												4307
	TOT PCT	27.6	3.5	2.2	3.5	6.7	5.8	11.7	35.9	.0	3.1	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	0-3	*	.1	.0	.1	.1	.1	.1	.1	.0	.3	.9	
<1/2	4-10	.4	.0	.1	.1	.3	.2	.4	1.2	.0		2.8	
	11-21	.5	*	.0	*	.1	*	*	.6	.0		1.3	
	22+	.1	.0	.0	.0	*	.0	.0	*	.0		.2	
	TOT %	.9	.1	.1	.2	.6	.4	.6	1.9	.0	.3	5.2	
	0-3	.0	.0	*	*	*	.1	*	*	.0	.1	.3	
1/2<1	4-10	.1	*	*	*	.2	.2	.4	.5	.0		1.5	
	11-21	.2	*	*	*	.1	.1	.1	.6	.0		1.2	
	22+	*	.0	.0	*	*	.0	.0	.1	.0		.2	
	TOT %	.4	*	.1	.1	.5	.4	.6	1.2	.0	.1	3.3	
	0-3	*	.0	.0	*	*	*	.1	*	.0	.1	.3	
1<2	4-10	.2	.1	.0	*	.1	.1	.2	.3	.0		1.0	
	11-21	.3	*	.0	*	.1	.1	.1	.4	.0		.9	
	22+	*	.0	.0	.1	*	.0	*	.1	.0		.2	
	TOT %	.5	.1	.0	.1	.2	.2	.5	.8	.0	.1	2.5	
	0-3	*	.1	*	.0	.1	*	.1	.1	.0	.3	.7	
2<5	4-10	.6	.2	.1	.1	.1	.3	.5	.8	.0		2.6	
	11-21	.6	*	.0	*	.2	.1	.1	.6	.0		1.6	
	22+	.1	.0	.0	.1	.1	.0	.0	.1	.0		.4	
	TOT %	1.3	.3	.1	.3	.5	.4	.7	1.6	.0	.3	5.3	
	0-3	.2	.1	.1	.1	.2	.2	.3	.5	.0	1.1	2.7	
5<10	4-10	1.8	.5	.4	.5	.8	.9	1.8	3.4	.0		10.0	
	11-21	3.7	.3	.1	.3	.6	.3	.8	4.4	.0		10.5	
	22+	1.7	*	.0	.1	.2	.1	.1	1.5	.0		3.6	
	TOT %	7.3	1.0	.6	1.0	1.8	1.4	3.0	9.7	.0	1.1	26.9	
	0-3	.5	.2	.2	.2	.1	.4	.6	.4	.0	1.7	4.3	
10+	4-10	4.0	1.1	.8	1.0	1.6	1.7	3.8	6.8	.0		20.7	
	11-21	7.9	.6	.3	.4	.9	.9	1.7	10.2	.0		22.9	
	22+	4.5	.1	*	.1	.3	.1	.1	3.7	.0		9.0	
	TOT %	16.9	1.9	1.3	1.7	3.0	3.0	6.2	21.1	.0	1.7	56.9	
	TOT OBS												4558
	TOT PCT	27.2	3.4	2.1	3.4	6.5	5.8	11.6	36.3	.0	3.6	100.0	

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00&03	5.6	1.1	3.7	6.6	12.0	3.9	1.7	.4	.3	.8	36.0	64.0	792
06&09	5.0	.3	4.4	6.0	10.9	4.3	2.0	.3	.1	.3	33.4	66.6	800
12&15	7.1	.6	3.8	6.8	12.1	5.0	1.4	.4	.3	.6	38.1	61.9	717
18&21	4.9	1.1	3.2	10.0	11.8	5.1	2.5	.6	.1	1.1	40.5	59.5	711
TOT	168	22	113	218	348	135	57	12	6	20	1099	1881	2980
PCT	5.6	.7	3.8	7.3	11.7	4.5	1.9	.4	.2	.7	36.9	63.1	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00&03	5.9	4.1	3.9	5.1	27.8	53.9	1227
06&09	3.9	2.5	1.7	4.5	24.2	63.1	1147
12&15	6.5	3.1	2.1	5.0	26.7	56.6	1185
18&21	4.8	3.5	2.9	6.6	29.9	52.3	1072
TOT	245	153	116	244	1256	2617	4631
PCT	5.3	3.3	2.5	5.3	27.1	56.5	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET, NH >4/8), BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	5.6	11.5	21.4	18.3	60.2	732
06&09	5.0	10.7	18.9	17.0	64.1	793
12&15	7.0	12.5	22.0	19.1	58.9	696
18&21	5.0	11.1	25.5	20.3	54.2	695
TOT	165	333	637	543	1736	2916
PCT	5.7	11.4	21.8	18.6	59.5	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
80/84	.0	*	*	.0	.0	.0	.0	.0	2	.1
75/79	*	.1	.1	.1	.2	.0	.0	.0	14	.5
70/74	.0	*	.2	.3	.1	.2	.0	*	28	.9
65/69	.0	*	.1	.4	1.2	1.9	2.0	1.1	204	6.6
60/64	.0	*	.2	.4	2.2	8.1	15.7	10.6	1145	37.3
55/59	.0	.0	.2	.6	2.3	7.1	21.2	16.3	1466	47.7
50/54	.0	.0	.0	.1	.4	.9	2.6	2.8	208	6.8
45/49	.0	.0	.0	.0	*	.1	*	.0	4	.1
TOTAL	1	7	25	57	200	562	1274	945	3071	100.0
PCT	*	.2	.8	1.9	6.5	18.3	41.5	30.8		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.0	.0	.0	.0	.0	.1	.0	.0
.1	*	*	.0	*	.0	*	.2	.0	.1
.2	*	*	*	*	.1	.1	.2	.0	.2
1.6	.3	.3	.3	.5	.6	1.0	1.8	.0	.4
10.6	1.1	.8	1.5	3.2	2.6	4.0	12.5	.0	.9
13.6	1.6	1.1	1.5	2.4	2.2	5.5	18.4	.0	1.5
1.3	.1	.1	.2	.4	.3	1.2	3.0	.0	.2
*	*	.0	.0	.0	.0	.0	.1	.0	.0
27.4	3.2	2.4	3.5	6.6	5.8	11.8	36.2	.0	3.2

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	90%	5%	1%	MIN	MEAN	TOTAL OBS
00&03	83	73	67	60	54	52	50	60.2	1293
06&09	73	68	64	59	53	52	49	58.8	1196
12&15	81	66	64	58	53	51	48	58.1	1262
18&21	78	72	67	60	55	53	51	60.3	1158
TOT	83	70	66	59	54	52	48	59.3	4909

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00&03	.1	4.1	6.7	20.8	40.5	27.8	83	824
06&09	.0	2.4	5.8	14.8	45.3	32.7	85	805
12&15	.0	1.4	3.5	10.1	45.2	35.8	86	766
18&21	.0	5.0	10.0	21.5	36.0	27.5	82	713
TOT	1	92	200	566	1287	962	84	3108

PERIOD: (PRIMARY) 1936-1973
(OVER-ALL) 1854-1973

AREA 0035 SAN FRANCISCO
36.9N 123.0W

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	49 52	53 56	57 60	61 64	65 68	69 72	73 76	77 80	81 84	TOT	W FOG	WO FOG
20/22	.0	.0	.0	.0	.0	.0	.0	.1	.0	3	*	*
17/19	.0	.0	.0	.0	*	*	*	*	*	7	.0	.2
14/16	.0	.0	.0	*	*	.1	.1	.1	.0	17	*	.4
11/13	.0	.0	.0	.1	.2	.1	.1	*	*	24	.0	.6
9/10	.0	.0	.0	.5	.4	.2	*	.0	.0	43	.1	.9
7/8	.0	.0	.2	.9	.7	.2	*	.0	.0	85	.2	1.8
6	.0	.1	.5	.8	.5	.1	.0	.0	.0	83	.2	1.8
5	.0	.1	.7	1.2	.5	.1	.0	.0	.0	108	.4	2.2
4	.0	.3	1.4	1.9	.6	.1	*	*	.0	180	.3	4.0
3	.0	.2	2.5	1.9	.8	*	.0	.0	.0	225	.3	5.1
2	.0	.4	3.5	4.1	.6	*	*	.0	.0	361	1.0	7.7
1	.1	1.3	4.9	3.0	.4	.0	.0	.0	.0	403	1.0	8.6
0	.1	2.1	7.4	4.5	.5	.1	.0	.0	.0	616	2.2	12.6
-1	.1	2.3	6.1	2.3	.3	.0	.0	.0	.0	461	1.4	9.7
-2	.1	4.0	6.4	2.1	.3	*	.0	.0	.0	541	2.3	10.7
-3	.2	2.5	3.8	1.2	.2	*	.0	.0	.0	329	1.2	6.7
-4	.2	2.4	2.9	.9	.1	.0	.0	.0	.0	272	1.4	5.1
-5	.2	1.2	1.9	.4	*	*	.0	.0	.0	159	.7	3.1
-6	.1	.8	1.0	.2	.0	.0	.0	.0	.0	88	.4	1.8
-7/-8	.1	.8	1.2	.1	.0	.0	.0	.0	.0	93	.4	1.9
-9/-10	*	.4	.4	.1	.0	.0	.0	.0	.0	39	.2	.8
-11/-13	.0	.3	.1	*	.0	.0	.0	.0	.0	20	.1	.4
-14/-16	*	*	*	.0	.0	.0	.0	.0	.0	4	.0	.1
-17/-19	.0	*	.0	.0	.0	.0	.0	.0	.0	1	.0	*
TOTAL	57	799	1875	1097	251	52	17	12	2	4162	574	3588
PCT	1.4	19.2	45.1	26.4	6.0	1.2	.4	.3	*	100.0	13.8	86.2

PERIOD: (OVER-ALL) 1963-1973

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.4	1.8	.1	.0	.0	.0	2.2
1-2	.0	3.4	1.9	.0	.0	.0	5.3
3-4	.0	1.5	4.1	.8	.0	.0	6.4
5-6	.0	.3	3.3	1.2	.1	.0	5.0
7	.0	.1	1.6	.8	.0	.0	2.5
8-9	.0	.0	.3	1.2	.0	.0	1.4
10-11	.0	.0	.5	.8	.1	.0	1.4
12	.0	.0	.1	.3	.0	.0	.4
13-16	.0	.0	.1	.2	.2	.0	.5
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.4	7.0	12.0	5.3	.4	.0	25.1

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	.7	*	.0	.0	.0	1.0
1-2	.1	.8	.4	.0	.0	.0	1.2
3-4	.0	.5	.3	*	.0	.0	.8
5-6	.0	*	.2	.0	.0	.0	.3
7	.0	.0	.1	*	.0	.0	.2
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.1	.0	.0	.0	.0	.1
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.4	2.1	1.1	*	.0	.0	3.5

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	.7	.0	.0	.0	.0	.9
1-2	.1	.7	.2	.0	.0	.0	.9
3-4	.0	.2	.6	.0	.0	.0	.8
5-6	.0	.0	.1	.1	.0	.0	.2
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	1.6	.9	.1	.0	.0	2.8

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	1.1	.0	.0	.0	.0	1.4
1-2	.1	.5	.4	.0	.0	.0	1.0
3-4	.1	.4	.7	.1	.0	.0	1.2
5-6	.0	.1	.1	*	.0	.0	.2
7	.0	*	.1	.1	.0	.0	.2
8-9	.0	.0	*	.0	.0	.0	*
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	*	.0	.0	.0	*
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.5	2.1	1.2	.2	.0	.0	4.0

PERIOD: (OVER-ALL) 1963-1973 OCTOBER AREA 0035 SAN FRANCISCO 36.9N 123.6W

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

	S							SW						
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.4	1.7	.0	.0	.0	.0	2.1	.5	1.9	.0	.0	.0	.0	2.5
1-2	.1	1.2	.5	.0	.0	.0	1.8	.2	1.0	.3	.0	.0	.0	1.4
3-4	.1	.4	1.2	.2	.0	.0	1.9	.1	.5	.5	.0	.0	.0	1.1
5-6	.0	.1	.5	.0	.0	.0	.6	.0	.1	.4	.1	.0	.0	.5
7	.0	.1	.4	.1	.0	.0	.6	.0	.1	.2	.0	.0	.0	.2
8-9	.0	.0	.1	.1	.0	.0	.1	.0	.0	*	.0	.0	.0	*
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.1	.1	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.5	3.4	2.9	.4	.0	.0	7.2	.8	3.6	1.4	.1	.0	.0	5.8

	W							NW						TOTAL
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	PCT
<1	1.0	4.1	.1	.0	.0	.0	5.2	.6	2.9	.1	.0	.0	.0	3.6	
1-2	.2	2.5	.6	.0	.0	.0	3.3	.3	5.0	3.3	.0	.0	.0	8.6	
3-4	.0	1.7	1.5	.1	.0	.0	3.3	.0	3.0	6.6	1.0	.0	.0	10.6	
5-6	.1	.2	.6	.0	.0	.0	.9	.0	.5	3.5	.7	*	.0	4.8	
7	.0	.1	.1	.0	.0	.0	.2	.0	.3	2.4	.9	.2	.0	3.8	
8-9	.0	.1	.1	.0	.0	.0	.2	.0	.2	.7	.7	.1	.0	1.7	
10-11	.0	.1	.0	.0	.0	.0	.1	.0	.1	.3	.5	.1	.0	1.0	
12	.0	.0	.1	.0	.0	.0	.1	.0	.0	.2	.1	.0	.0	.3	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	.4	.2	.0	.7	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	1.3	8.7	3.2	.1	.0	.0	13.3	.9	12.0	17.0	4.4	.5	.0	34.9	96.6

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	7.0	14.8	.2	.0	.0	.0	22.1	
1-2	1.3	15.0	7.5	.0	.0	.0	23.7	
3-4	.2	8.2	15.4	2.2	.0	.0	26.1	
5-6	.1	1.3	8.9	2.0	.2	.0	12.4	
7	.0	.6	4.9	1.9	.2	.0	7.5	
8-9	.0	.2	1.2	2.0	.1	.0	3.5	
10-11	.0	.2	.8	1.4	.2	.0	2.5	
12	.0	.0	.5	.5	.0	.0	1.0	
13-16	.0	.1	.2	.6	.4	.0	1.2	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
								1327
TOT PCT	8.6	40.4	39.6	10.5	.9	.0	100.0	

PERIOD: (OVER-ALL) 1949-1973

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	2.0	8.6	11.9	4.7	2.5	1.0	.4	.3	.2	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	874	4
6-7	.1	2.0	7.1	7.1	4.1	2.8	1.6	.6	.8	.1	*	.0	*	.0	.0	.0	.0	.0	.0	730	6
8-9	.0	1.9	4.2	3.9	4.9	2.6	1.7	1.1	.8	.1	.1	*	.0	.0	.0	.0	.0	.0	.0	588	6
10-11	.0	.9	1.3	1.0	1.0	1.3	.9	.7	.6	.1	*	*	*	.0	.0	.0	.0	.0	.0	221	7
12-13	.0	.0	.3	.5	.5	.5	.5	.4	.4	.1	.2	.0	.0	.0	.0	.0	.0	.0	.0	96	9
>14	.0	.0	.0	.1	.2	.1	.2	*	.4	.1	.2	.0	*	.0	.0	.0	.0	.0	.0	39	13
INDET	4.2	1.6	.7	.7	.3	.1	.1	.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	217	2
TOTAL	175	416	702	500	371	234	150	87	90	20	15	2	3	0	0	0	0	0	0	2765	5
PCT	6.3	15.0	25.4	18.1	13.4	8.5	5.4	3.1	3.3	.7	.5	.1	.1	.0	.0	.0	.0	.0	.0	100.0	

NOVEMBER

PERIOD: (PRIMARY) 1937-1973
(OVER-ALL) 1854-1973

AREA 0035 SAN FRANCISCO
37.0N 123.7W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA				
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	.5	.2	1.0	.0	.0	.0	.0	1.7	.2	.1	10.3	.6	3.6	.0		83.4
NE	1.0	.5	.8	.0	.0	.0	.0	2.3	.5	.0	10.6	.5	5.5	.0		80.7
E	1.6	.5	2.0	.0	.0	.0	.0	4.2	1.1	.0	17.6	2.4	6.6	.0		68.1
SE	9.8	1.2	4.4	.0	.0	.0	.1	15.5	2.1	.0	15.7	.7	2.1	.0		64.0
S	7.8	1.5	6.4	.0	.0	.0	.2	15.1	3.1	.2	13.7	.8	2.4	.2		64.7
SW	5.3	2.6	4.0	.0	.0	.0	.0	11.0	4.2	.1	13.3	1.4	4.4	.0		65.7
W	3.1	1.1	2.6	.0	.0	.0	.0	6.1	2.9	.2	16.0	.2	4.4	.0		70.3
NW	.4	.8	.9	.0	.0	.0	.0	2.0	1.1	.2	13.3	.2	3.1	.0		80.1
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0
CALM	1.2	.0	1.2	.0	.0	.0	.0	2.5	.0	.0	24.1	.6	11.1	.0		61.7
TOT PCT	2.7	.9	2.3	.0	.0	.0	*	5.6	1.5	.1	13.5	.6	3.9	*		74.8
TOT OBS:	4428															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA				
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00&03	3.0	.8	1.9	.0	.0	.0	.0	5.6	1.1	.2	12.1	.7	4.4	.0		76.1
06&09	2.8	.9	2.3	.0	.0	.0	.1	5.9	1.8	.3	11.7	.4	2.7	.1		77.2
12&15	2.6	1.0	2.6	.0	.0	.0	.0	5.9	1.9	.2	15.7	.6	2.6	.0		73.2
18&21	2.4	.6	2.2	.0	.0	.0	.0	5.1	1.3	.0	15.0	.8	6.0	.0		71.8
TOT PCT	2.7	.9	2.3	.0	.0	.0	*	5.6	1.5	.2	13.6	.6	3.9	*		74.6
TOT OBS:	4498															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	1.2	9.1	10.4	3.3	.4	.0		24.4	13.7	25.3	22.7	25.0	20.7	22.4	27.7	24.0	27.1
NE	.5	2.6	1.5	.3	*	.0		4.9	10.0	3.3	4.3	3.8	3.0	6.1	6.9	6.2	6.1
E	.7	2.1	1.2	.1	.0	.0		4.1	8.6	2.6	2.6	2.8	4.4	4.6	7.2	5.8	3.8
SE	.8	2.8	2.8	.8	.3	*		7.4	12.7	6.6	6.6	5.4	7.7	7.1	8.3	10.3	8.6
S	.8	3.9	4.5	1.2	.2	.0		10.7	13.3	13.0	8.5	12.4	10.3	9.2	8.9	11.2	8.6
SW	.8	3.6	3.3	.4	*	.0		8.1	10.8	8.9	10.4	8.6	8.2	8.5	4.6	7.2	7.6
W	.8	4.8	3.2	.7	*	.0		9.4	10.8	9.2	11.1	10.8	10.0	9.2	9.1	8.9	6.9
NW	1.2	10.4	11.0	3.6	.4	.0		26.5	13.6	27.7	28.8	27.0	30.0	27.5	24.1	20.9	27.5
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	4.4							4.4	.0	3.3	5.0	4.1	5.7	5.2	3.3	5.4	4.0
TOT OBS	553	1926	1854	507	64	1	4905		12.0	935	360	800	351	877	396	707	479
TOT PCT	11.3	39.3	37.8	10.3	1.3	*		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	4.4	12.6	5.9	1.4	.1		24.4	13.7	24.6	23.7	24.1	25.2
NE	1.6	2.7	.6	.1	.0		4.9	10.0	3.6	3.6	6.4	6.2
E	1.8	1.9	.3	.1	.0		4.1	8.6	2.6	3.3	5.4	5.0
SE	2.0	3.5	1.3	.5	.1		7.4	12.7	6.6	6.1	7.4	9.6
S	2.3	5.1	2.6	.6	*		10.7	13.3	11.7	11.8	9.1	10.1
SW	2.5	4.3	1.2	.1	.0		8.1	10.8	9.3	8.5	7.3	7.4
W	3.1	4.7	1.5	.2	.0		9.4	10.8	9.7	10.6	9.2	8.1
NW	4.5	14.3	5.9	1.7	.1		26.5	13.6	28.0	27.9	26.5	23.6
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	4.4						4.4	.0	3.8	4.6	4.6	4.8
TOT OBS	1304	2411	947	228	15	4905		12.0	1295	1151	1273	1186
TOT PCT	26.6	49.2	19.3	4.6	.3		100.0		100.0	100.0	100.0	100.0

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	3.8	6.2	35.8	39.8	12.8	1.5	.1	12.9	100.0	1295
06&09	4.6	5.5	40.2	38.4	10.2	1.1	.0	12.0	100.0	1151
12&15	4.6	7.1	40.6	38.5	8.4	.7	.0	11.5	100.0	1273
18&21	4.8	8.5	40.7	34.2	9.9	1.9	.0	11.6	100.0	1186
TOT	218	335	1926	1854	507	64	1	12.0		4905
PCT	4.4	6.8	39.3	37.8	10.3	1.3	*		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	11.6	3.5	5.4	4.3		3.5
NE	2.7	.5	1.0	.8		3.1
E	1.3	.6	1.0	1.3		4.6
SE	1.0	.5	2.1	3.8		6.2
S	1.4	1.0	3.1	5.8		6.3
SW	1.5	1.1	2.1	3.5		5.6
W	2.7	1.4	2.3	3.1		4.8
NW	11.2	3.5	6.0	4.*		3.6
VAR	.0	.0	.0	.0		.0
CALM	2.0	.4	1.0	1.2		4.0
TOT OBS	1061	370	719	847	2997	4.4
TOT PCT	35.4	12.3	24.0	28.3	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	1.0	.2	.4	1.4	2.8	1.1	.2	.1	.1	.1	17.4	
NE	.1	*	.1	.3	.3	.2	.1	*	.0	*	3.6	
E	.4	.0	.1	.2	.4	.5	.1	*	.0	.1	2.4	
SE	.5	.1	.5	1.2	1.4	.5	.3	.1	.0	.1	2.6	
S	1.1	.3	.4	1.7	2.2	1.2	.3	.2	.0	.1	3.8	
SW	.6	.2	.1	.9	1.4	.9	.3	.2	.1	.1	3.5	
W	.6	.2	.2	.7	1.7	.7	.2	*	.0	.0	5.1	
NW	.9	.1	.4	2.1	3.1	1.1	.4	.1	.1	.2	16.8	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.5	*	*	.2	.3	.3	.0	.0	.0	.2	3.0	
TOT OBS	175	33	66	256	409	197	58	21	9	29	1744	2997
TOT PCT	5.8	1.1	2.2	8.5	13.6	6.6	1.9	.7	.3	1.0	58.2	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM) * OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >50YD	* OR >0
* OR >6500	.6	1.0	1.3	1.3	1.3	1.3	1.3	1.3
* OR >5000	1.0	1.7	2.0	2.0	2.0	2.0	2.0	2.0
* OR >3500	2.4	3.5	3.9	3.9	3.9	3.9	3.9	3.9
* OR >2000	6.3	9.7	10.4	10.4	10.4	10.4	10.4	10.4
* OR >1000	15.1	22.2	23.6	23.8	23.9	24.0	24.0	24.0
* OR >600	19.1	28.9	31.5	32.0	32.2	32.3	32.5	32.5
* OR >300	19.6	30.2	33.3	33.9	34.3	34.4	34.6	34.6
* OR >150	20.0	31.0	34.2	34.8	35.3	35.5	35.7	35.7
* OR > 0	20.2	31.8	35.6	36.8	38.0	39.0	40.8	41.5
TOTAL	610	960	1075	1110	1146	1175	1232	1252

TOTAL NUMBER OF OBS: 3016 PCT FREQ NH <5/8: 58.5

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
26.3	9.4	10.1	7.2	4.7	5.6	6.7	6.8	18.7	4.5	3199

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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	PCP	.1	*	*	*	.1	*	*	.1	.0	.0	.4	
<1/2	NO PCP	.7	.1	.3	.5	.6	.3	.5	1.2	.0	.3	4.5	
	TOT %	.8	.1	.4	.5	.7	.3	.5	1.3	.0	.3	4.9	
	PCP	*	*	.0	.1	.2	*	.1	*	.0	.0	.4	
1/2<1	NO PCP	.9	.1	.1	.2	.2	.2	.3	.7	.0	.1	2.9	
	TOT %	.9	.1	.1	.3	.4	.3	.4	.8	.0	.1	3.3	
	PCP	.0	.0	*	.1	.1	.1	.0	.0	.0	.0	.3	
1<2	NO PCP	.2	*	.1	.1	.2	.2	.1	.3	.0	*	1.3	
	TOT %	.2	*	.1	.2	.4	.3	.1	.3	.0	*	1.7	
	PCP	.1	*	.1	.3	.3	.2	.2	*	.0	*	1.0	
2<5	NO PCP	.7	.3	.3	.2	.4	.4	.5	1.0	.0	.5	4.3	
	TOT %	.8	.3	.3	.5	.7	.5	.7	1.0	.0	.5	5.3	
	PCP	.2	.1	.1	.4	.8	.4	.3	.3	.0	*	2.6	
5<10	NO PCP	6.0	1.1	1.4	1.7	2.6	2.0	2.6	6.1	.0	.6	24.1	
	TOT %	6.3	1.2	1.4	2.1	3.4	2.4	2.8	6.4	.0	.6	26.7	
	PCP	*	*	.0	.2	.2	.2	.1	.1	.0	*	.9	
10+	NO PCP	16.0	3.2	1.8	3.2	5.4	4.3	5.0	16.2	.0	2.1	57.3	
	TOT %	16.1	3.2	1.8	3.4	5.6	4.5	5.1	16.3	.0	2.1	58.1	
	TOT OBS												4419
	TOT PCT	29.0	5.0	4.1	7.1	11.1	8.3	9.6	26.0	.0	3.7	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	0-3	.1	*	.1	.1	.1	.1	.1	.1	.0	.4	1.1	
<1/2	4-10	.4	.1	.2	.3	.4	.2	.3	.6	.0		2.6	
	11-21	.3	*	.0	.1	.1	*	.1	.5	.0		1.2	
	22+	.0	.0	.0	*	*	.0	.0	*	.0		.1	
	TOT %	.8	.1	.3	.5	.7	.3	.5	1.3	.0	.4	4.9	
	0-3	*	.0	.0	.1	*	*	*	.1	.0	.1	.3	
1/2<1	4-10	.4	.1	.1	.1	.2	.1	.2	.3	.0		1.5	
	11-21	.4	*	*	.1	.1	.1	.1	.3	.0		1.2	
	22+	.1	.0	.0	*	.1	.0	*	*	.0		.3	
	TOT %	.9	.1	.1	.3	.4	.3	.3	.8	.0	.1	3.3	
	0-3	.0	.0	*	*	.1	.1	*	*	.0	*	.4	
1<2	4-10	.1	*	.1	.1	.1	.1	.1	.2	.0		.8	
	11-21	.1	.0	*	.1	.1	*	*	.2	.0		.5	
	22+	.0	.0	.0	.1	.1	.0	.0	.0	.0		.2	
	TOT %	.2	*	.1	.3	.4	.3	.2	.3	.0	*	1.8	
	0-3	.1	.1	.1	.1	.1	.1	.2	.1	.0	.5	1.3	
2<5	4-10	.3	.2	.2	.1	.2	.2	.3	.7	.0		2.2	
	11-21	.3	.1	*	.2	.3	.3	.2	.3	.0		1.7	
	22+	.1	.0	.0	.2	.2	*	.1	.1	.0		.6	
	TOT %	.9	.4	.3	.5	.7	.6	.7	1.2	.0	.5	5.8	
	0-3	.3	.1	.2	.2	.2	.2	.2	.1	.0	.8	2.6	
5<10	4-10	2.2	.5	.7	.6	.9	1.0	1.4	2.4	.0		9.7	
	11-21	2.4	.3	.4	.9	1.5	.9	1.0	2.9	.0		10.4	
	22+	1.1	.1	.1	.4	.6	.2	.1	.8	.0		3.3	
	TOT %	6.0	1.1	1.4	2.1	3.3	2.4	2.8	6.2	.0	.6	25.9	
	0-3	.5	.2	.2	.3	.3	.2	.2	.5	.0	2.5	5.1	
10+	4-10	5.6	1.7	.9	1.5	2.1	1.9	2.4	6.0	.0		22.2	
	11-21	7.1	1.1	.7	1.5	2.5	2.1	1.8	6.8	.0		23.6	
	22+	2.6	.2	*	.3	.5	.2	.5	3.0	.0		7.3	
	TOT %	15.9	3.3	1.9	3.5	5.4	4.4	5.0	16.3	.0	2.5	58.2	
	TOT OBS												4627
	TOT PCT	24.7	5.0	4.1	7.2	10.8	8.3	9.4	26.2	.0	4.3	100.0	

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET,NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00&03	4.3	.9	2.3	8.2	14.6	5.8	2.1	.7	.5	1.1	40.5	59.5	815
06&09	6.0	1.0	1.8	8.2	11.3	7.4	.9	.6	.4	.8	38.4	61.6	794
12&15	6.8	1.2	2.3	7.1	12.3	6.4	2.8	.3	.3	.7	40.2	59.8	747
18&21	5.5	1.2	2.1	9.6	14.9	5.9	1.9	1.1	.0	1.3	43.5	56.5	750
TOT	175	33	66	257	413	198	59	21	9	30	1261	1845	3106
PCT	5.6	1.1	2.1	8.3	13.3	6.4	1.9	.7	.3	1.0	40.6	59.4	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00&03	4.3	3.4	2.2	6.6	28.3	55.2	1251
06&09	4.9	2.3	1.3	4.1	25.0	62.3	1119
12&15	6.1	4.3	1.6	5.7	25.7	56.6	1220
18&21	4.6	3.-	2.2	6.8	24.9	58.1	1107
TOT	234	159	86	274	1224	2720	4697
PCT	5.0	3.4	1.8	5.8	26.1	57.9	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET,NH >4/8),BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	4.4	9.2	21.1	23.8	55.1	790
06&09	6.1	10.0	21.0	19.7	59.3	771
12&15	7.2	12.1	22.8	21.3	55.8	727
18&21	5.8	10.6	25.3	24.0	50.7	728
TOT	176	315	679	670	1667	3016
PCT	5.8	10.4	22.5	22.2	55.3	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
80/84	*	.0	.0	.0	.0	.0	.0	.0	1	*
75/79	.0	.0	.1	.0	.0	.1	.0	.0	5	.2
70/74	.0	*	*	.1	.2	*	*	.1	16	.5
65/69	.0	.0	.1	.2	.4	.5	.9	.2	71	2.2
60/64	.0	.0	.3	.6	1.8	5.3	8.5	6.0	722	22.6
55/59	.0	.1	.1	.9	4.1	12.7	23.2	16.5	1845	57.6
50/54	.0	.1	.2	.1	1.8	2.8	5.8	5.6	522	16.3
45/49	.0	.0	.0	.0	.1	*	.1	.4	19	.6
TOTAL	1	5	24	64	270	684	1234	919	3201	100.0
PCT	*	.2	.7	2.0	8.4	21.4	38.6	28.7		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	*	.0	.0	.0	.0	.0	.0	.0	.0
*	*	.0	.0	.0	.0	*	.1	.0	.0
.1	*	*	*	.1	.1	*	*	.0	.1
.4	.1	*	.1	.3	.3	.4	.5	.0	.2
4.7	1.0	.8	2.2	3.5	2.9	2.2	4.2	.0	1.1
14.7	2.8	2.1	3.7	6.8	4.5	5.3	16.1	.0	1.6
5.3	.8	.8	1.1	1.0	.7	1.5	4.8	.0	.3
.1	*	.1	*	.0	.0	*	.3	.0	.0
25.3	4.7	3.9	7.2	11.7	8.5	9.5	25.9	.0	3.3

TABLE 15

MEANS,EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00&03	81	68	64	58	53	50	47	58.1	1306
06&09	70	64	62	57	52	50	46	57.0	1158
12&15	75	65	62	56	51	50	44	56.3	1287
18&21	80	70	64	58	52	49	45	58.1	1193
TOT	81	68	63	57	52	50	44	57.3	4944

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00&03	.1	2.7	10.1	24.0	38.6	24.5	82	883
06&09	.0	2.3	5.9	17.3	41.4	33.1	85	782
12&15	.0	1.8	6.8	18.1	38.0	35.3	85	811
18&21	.0	5.0	10.9	26.8	35.2	22.1	81	755
TOT	1	95	272	696	1239	928	83	3231

PERIOD: (PRIMARY) 1937-1973
(OVER-ALL) 1854-1973

AREA 0035 SAN FRANCISCO
37.6N 123.7W

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	41 44	45 48	49 52	53 56	57 60	61 64	65 68	69 72	73 76	77 80	TOT	W FOG	WO FOG
20/22	.0	.0	.0	.0	.0	.0	.0	*	.0	*	2	.0	*
17/19	.0	.0	.0	.0	.0	.0	*	*	*	.0	4	.0	.1
14/16	.0	.0	.0	.0	.0	.0	.1	*	*	*	7	*	.1
11/13	.0	.0	.0	.0	*	.0	.2	.1	.1	.0	17	.1	.3
9/10	.0	.0	.0	.0	*	.1	.3	.1	*	.0	27	.1	.6
7/8	.0	.0	.0	.1	.4	.6	.5	*	.0	.0	63	.3	1.3
6	.0	.0	.0	.0	.6	.6	.1	*	.0	.0	56	.2	1.2
5	.0	.0	.0	.1	1.2	1.2	.2	*	.0	.0	112	.5	2.2
4	.0	.0	.1	.5	1.8	1.3	.1	*	.0	.0	157	.4	3.5
3	.0	.0	*	1.0	2.4	1.8	.1	*	.0	.0	219	.5	4.8
2	.0	.0	.1	1.7	4.8	2.0	.2	.0	.0	.0	361	1.1	7.7
1	.0	.0	.1	2.4	5.5	1.6	.1	.0	.0	.0	398	1.5	8.2
0	.0	*	.4	4.9	8.0	1.8	.1	*	.0	.0	624	2.1	13.1
-1	.0	*	.4	5.1	5.1	1.0	*	.0	.0	.0	479	1.7	10.0
-2	.0	.1	.7	6.1	4.6	.7	.0	.0	.0	.0	497	1.5	10.6
-3	.0	*	.5	4.4	3.1	.3	.0	.0	.0	.0	341	1.2	7.1
-4	.0	.1	1.0	3.2	1.5	.3	.0	.0	.0	.0	255	.9	5.4
-5	.0	*	.9	2.2	1.6	.1	.0	.0	.0	.0	194	.6	4.1
-6	*	*	.4	1.3	.7	*	.0	.0	.0	.0	104	.5	2.0
-7/-8	.0	*	.6	1.5	.6	.1	.0	.0	.0	.0	114	.3	2.5
-9/-10	.0	*	.3	.5	.2	.0	.0	.0	.0	.0	42	*	1.0
-11/-13	.0	.1	.2	.2	*	*	.0	.0	.0	.0	20	*	.5
-14/-16	.0	.0	.0	.1	*	.0	.0	.0	.0	.0	4	.0	.1
-17/-19	.0	.0	*	*	.0	.0	.0	.0	.0	.0	2	.0	*
TOTAL	1	19	231	1446	1727	559	86	20	8	2	4099	555	3544
PCT	*	.5	5.6	35.3	42.1	13.6	2.1	.5	.2	*	100.0	13.5	86.5

PERIOD: (OVER-ALL) 1963-1973

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.4	1.2	.0	.0	.0	.0	1.6
1-2	.1	3.5	1.8	.0	.0	.0	5.5
3-4	.0	1.3	2.7	.4	.0	.0	4.4
5-6	.0	.6	2.1	.9	.0	.0	3.5
7	.0	.1	1.8	1.2	.1	.0	3.2
8-9	.0	.1	.3	.6	.1	.0	1.0
10-11	.0	.0	.1	.7	.1	.0	.9
12	.0	.1	.0	.2	.0	.0	.3
13-16	.0	.0	.0	.2	.1	.0	.3
17-19	.0	.0	.0	.1	.0	.0	.1
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.6	6.9	8.8	4.2	.3	.0	20.8

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	.7	.0	.0	.0	.0	.9
1-2	.0	1.0	.4	.0	.0	.0	1.4
3-4	*	.4	.8	.2	.0	.0	1.4
5-6	.0	*	.2	.1	.0	.0	.4
7	.0	.0	.1	.0	.0	.0	.1
8-9	.0	.1	.1	.0	.0	.0	.2
10-11	.0	.0	.0	.1	.0	.0	.1
12	.0	.0	.0	*	.0	.0	*
13-16	.0	.0	.1	.0	.0	.0	.1
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	2.2	1.8	.4	.0	.0	4.6

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	.9	.1	.0	.0	.0	1.2
1-2	.0	1.1	.8	.0	.0	.0	1.9
3-4	.1	.4	.4	.0	.0	.0	.9
5-6	.0	.2	.3	.1	.0	.0	.5
7	.0	.0	.1	.0	.0	.0	.1
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	2.5	1.7	.1	.0	.0	4.6

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	1.1	.2	.0	.0	.0	1.5
1-2	.0	1.4	1.2	.0	.0	.0	2.6
3-4	.1	.5	1.5	.3	.0	.0	2.4
5-6	.0	.1	.7	.5	.0	.0	1.3
7	.0	*	.5	.4	.1	.1	1.1
8-9	.0	.0	*	.1	.1	.0	.2
10-11	.0	.1	*	.1	.0	.0	.2
12	.0	.0	*	*	*	.0	.1
13-16	.0	.0	.0	*	*	.0	*
17-19	.0	.0	.0	.0	*	.0	*
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	3.2	4.2	1.4	.3	.1	9.4

PERIOD: (OVER-ALL) 1963-1973

NOVEMBER

AREA 0035 SAN FRANCISCO
37.0N 123.7W

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

S

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.4	1.5	.1	.0	.0	.0	1.9
1-2	.5	1.9	.9	.0	.0	.0	3.3
3-4	.0	1.4	2.8	.3	.0	.0	4.5
5-6	.0	.3	1.9	.7	.1	.0	3.0
7	.0	.1	.5	.4	.1	.0	1.1
8-9	.0	.0	.6	.5	.0	.0	1.1
10-11	.0	.0	.2	.1	.1	.0	.5
12	.0	.0	.2	.1	.1	.0	.4
13-16	.0	.0	.1	.1	.1	.0	.3
17-19	.0	.0	.0	.0	.1	.0	.1
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.8	5.3	7.3	2.2	.6	.0	16.2

SW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	.9	.2	.0	.0	.0	1.3
1-2	.2	1.4	.8	.0	.0	.0	2.4
3-4	*	1.2	1.0	.0	.0	.0	2.2
5-6	.0	.4	1.1	.2	*	.0	1.7
7	.0	.1	.4	.2	.0	.0	.7
8-9	.0	.1	.1	.2	.0	.0	.4
10-11	.0	.0	.1	.0	*	.0	.1
12	.0	.0	.1	*	.0	.0	.1
13-16	.0	.0	.0	.1	.0	.0	.1
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.5	4.1	3.8	.7	*	.0	9.1

W

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	.6	.1	.0	.0	.0	1.0
1-2	.0	2.7	.5	.0	.0	.0	3.1
3-4	.1	.6	1.0	.2	.0	.0	1.8
5-6	.0	.3	1.1	.1	.0	.0	1.5
7	.0	.1	.5	.1	.0	.0	.7
8-9	.0	.1	.1	.1	.0	.0	.4
10-11	.0	.1	.0	.1	.1	.0	.2
12	.0	.0	.0	.1	.0	.0	.1
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.4	4.5	3.2	.7	.1	.0	8.8

NW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.2	1.3	.1	.0	.0	.0	1.6	
1-2	.1	4.2	2.1	.0	.0	.0	6.5	
3-4	.1	1.9	2.8	.4	.0	.0	5.1	
5-6	.0	.6	1.7	.9	.1	.0	3.3	
7	.0	.1	1.1	.7	.0	.0	2.0	
8-9	.0	.2	.3	.4	.2	.0	1.0	
10-11	.0	.0	.2	.7	.0	.0	.8	
12	.0	.0	.0	.2	.1	.0	.3	
13-16	.0	.0	.0	.1	*	.0	.1	
17-19	.0	.0	.0	.0	*	.0	.0	*
20-22	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.4	8.3	8.4	3.3	.4	.0	20.8	94.4

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	7.7	8.1	.7	.0	.0	.0	16.5	
1-2	1.1	17.3	8.4	.0	.0	.0	26.8	
3-4	.3	7.5	13.0	1.7	.0	.0	22.6	
5-6	.0	2.6	9.1	3.4	.1	.0	15.3	
7	.1	.7	5.1	2.9	.3	.1	9.1	
8-9	.1	.4	1.6	1.9	.3	.0	4.4	
10-11	.0	.1	.7	1.7	.3	.0	2.8	
12	.0	.1	.3	.6	.2	.0	1.2	
13-16	.0	.0	.2	.4	.3	.0	1.0	
17-19	.0	.0	.0	.1	.1	.0	.2	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
								1338
TOT PCT	9.3	36.9	39.2	12.9	1.7	.1	100.0	

PERIOD: (OVER-ALL) 1949-1973

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	2.0	9.7	12.3	5.5	2.4	1.1	.7	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	904	4
6-7	.2	1.5	7.2	6.4	5.2	2.2	2.2	.7	.3	*	.0	*	.0	.0	.0	.0	.0	.0	.0	688	6
8-9	.0	.5	2.2	3.0	3.8	3.0	2.5	.8	1.4	.2	*	.0	.0	.0	.0	.0	.0	.0	.0	462	7
10-11	.0	.3	1.6	1.4	1.7	1.6	1.2	1.0	.8	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	261	8
12-13	.0	.0	.5	.3	.9	.4	.5	.4	.2	.3	.2	.0	.0	.0	.0	.0	.0	.0	.0	85	9
>13	.0	.0	.0	.1	.2	.4	.1	.0	.3	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	32	11
INDET	4.2	1.1	.8	1.0	.5	.5	.2	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	228	2
TOTAL	169	349	692	470	379	243	194	88	87	18	10	1	0	0	0	0	0	0	0	2660	5
PCT	6.4	13.1	26.5	17.7	14.2	9.1	7.3	3.3	3.3	.7	.4	*	.0	.0	.0	.0	.0	.0	.0	100.0	

DECEMBER

PERIOD: (PRIMARY) 1935-1973
(OVER-ALL) 1860-1973

AREA 0035 SAN FRANCISCO
36.9N 123.0W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	.4	.8	.6	.0	.0	.0	.1	1.9	.7	.0	8.3	.5	2.6	.0		86.0
NE	3.0	.5	1.2	.0	.0	.0	.0	4.8	.7	.0	8.2	.1	6.7	.0		79.5
E	4.2	.0	1.5	.0	.0	.0	.0	5.7	.0	.0	8.3	.0	6.4	.0		79.6
SE	9.7	2.0	6.7	.0	.0	.0	.0	16.6	3.3	.1	8.3	.6	9.9	.0		65.3
S	14.6	2.0	11.1	.0	.0	.0	.0	25.0	2.8	.4	10.7	.1	3.2	.0		37.8
SW	7.1	2.1	5.3	.0	.0	.0	.2	14.6	4.5	.0	8.2	.5	.6	.0		71.6
W	4.7	1.1	3.5	.0	.0	.0	.1	9.3	3.1	.0	10.5	.4	3.5	.0		73.2
NW	1.0	1.0	1.3	.0	.0	.0	.0	3.2	1.9	.0	8.0	.8	2.6	.0		83.4
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	1.2	.0	12.9	.0	10.6	.0		75.3
TOT PCT	4.4	1.1	3.3	.0	.0	.0	.1	8.5	2.0	.1	8.8	.5	3.5	.0		76.7
TOT OBS:	3526															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00003	5.8	1.8	2.6	.0	.0	.0	.0	9.7	1.2	.0	8.7	.8	4.4		.0	75.2
06009	4.3	.9	4.2	.0	.0	.0	.1	8.5	2.2	.1	8.9	.3	1.4		.0	78.5
12015	3.8	.7	4.0	.0	.0	.0	.0	8.5	2.1	.1	9.7	.3	3.3		.0	76.0
18021	3.4	1.1	2.6	.0	.0	.0	.1	7.1	2.4	.0	9.3	.4	4.9		.0	75.9
TOT PCT	4.4	1.1	3.4	.0	.0	.0	.1	8.5	1.9	.1	9.1	.5	3.5		.0	76.4
TOT OBS:	3608															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	1.2	8.3	9.6	3.3	.9	.1		23.4	14.5	24.5	22.1	23.2	26.3	23.0	23.1	24.3	20.5
NE	.5	3.9	2.5	.6	.1	*		7.8	11.6	7.3	4.8	5.7	6.3	9.5	8.9	9.2	9.3
E	.6	2.2	1.5	.1	*	.0		4.4	9.9	4.0	2.7	4.1	4.1	3.5	7.0	5.4	6.2
SE	.6	3.3	2.6	1.4	.3	*		8.2	14.3	6.0	10.0	6.5	6.4	6.8	12.6	10.0	12.2
S	.8	4.3	4.6	2.4	.3	.0		12.4	14.8	11.1	12.8	12.7	13.2	12.6	11.6	12.9	13.3
SW	.6	3.3	3.0	1.0	.1	*		8.0	12.7	7.4	8.5	9.1	5.3	7.4	7.4	8.7	9.2
W	.8	4.7	3.5	.6	.1	.0		9.7	11.5	11.7	8.8	12.2	9.0	8.9	6.6	8.6	7.0
NW	1.3	9.1	9.3	2.9	.5	*		23.1	13.6	25.9	28.3	23.0	26.1	23.6	21.0	19.3	17.7
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	3.0							3.0	.0	2.0	2.0	3.3	3.3	4.6	1.7	1.5	4.7
TOT OBS	375	1569	1468	493	95	7	4007		13.0	784	301	720	245	783	286	543	365
TOT PCT	9.4	39.2	36.6	12.3	2.4	.2		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	4.3	10.9	6.3	1.8	.1		23.4	14.5	23.8	24.0	23.0	22.7
NE	2.4	3.6	1.4	.3	*		7.8	11.6	6.6	5.9	9.4	9.3
E	1.4	2.4	.7	*	.0		4.4	9.9	3.6	4.1	4.4	5.7
SE	2.1	3.1	1.9	1.0	.1		8.2	14.3	7.1	6.5	8.4	10.9
S	2.2	5.4	3.8	1.0	.1		12.4	14.8	11.6	12.8	12.4	13.1
SW	1.7	4.1	1.9	.3	*		8.0	12.7	7.7	8.1	7.4	8.9
W	2.3	5.0	1.9	.2	*		9.7	11.5	10.9	11.4	8.3	8.0
NW	4.5	11.2	6.1	1.3	.1		23.1	13.6	26.6	23.8	22.9	18.7
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	3.0						3.0	.0	2.0	3.3	3.8	2.8
TOT OBS	964	1829	962	235	17	4007		13.0	1065	965	1069	908
TOT PCT	24.1	45.6	24.0	5.9	.4		100.0		100.0	100.0	100.0	100.0

DECEMBER

PERIOD: (PRIMARY) 1935-1973
(OVER-ALL) 1860-1973

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	2.0	6.1	37.4	37.7	13.5	3.3	.1	13.7	100.0	1065
06&09	3.3	5.8	37.9	38.3	12.8	1.7	.1	13.0	100.0	965
12&15	3.8	6.2	42.0	35.1	11.3	1.4	.2	12.5	100.0	1069
18&21	2.8	7.6	39.2	35.5	11.5	3.2	.3	13.0	100.0	908
TOT	119	256	1569	1468	493	95	7	13.0		4007
PCT	3.0	6.4	39.2	36.6	12.3	2.4	.2		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	10.5	3.7	6.4	4.1		3.7
NE	4.2	.5	1.6	2.0		3.6
E	2.0	.5	.8	1.1		3.9
SE	1.2	.7	1.5	3.4		5.9
S	1.2	1.3	3.0	6.6		6.4
SW	1.1	1.0	2.4	3.6		6.0
W	2.5	1.7	3.0	3.0		5.0
NW	8.8	3.6	6.3	4.0		3.9
VAR	.0	.0	.0	.0		.0
CALM	1.6	.0	.3	.7		3.1
TOT OBS	779	308	598	674	2359	4.5
TOT PCT	33.0	13.1	25.3	28.6	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NM >4/8) AND OCCURRENCE OF NM <5/8 BY WIND DIRECTION

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7499	8000+	NM <5/8 ANY HGT	TOTAL OBS
N	.7	*	.3	1.8	3.2	1.6	.3	.0	*	.2	16.5	
NE	.1	.0	.0	.5	1.2	.7	.1	*	.1	.1	5.4	
E	.1	*	.1	.3	.4	.3	*	.0	.0	.1	2.9	
SE	.7	*	.3	.6	1.1	1.0	.4	.1	.0	.1	2.6	
S	.5	.2	.3	1.5	3.5	1.6	.6	.1	.1	*	3.6	
SW	.4	.1	.4	1.0	2.0	.7	.2	.1	*	.1	3.2	
W	.6	*	.1	.8	1.9	.9	.2	.1	.0	.1	5.3	
NW	.8	.1	.3	1.1	2.6	2.0	.4	.1	.1	.1	15.2	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.1	.0	.1	.3	.4	.1	*	.0	.0	.0	1.6	
TOT OBS	98	13	43	187	385	210	51	11	8	21	1332	2359
TOT PCT	4.2	.6	1.8	7.9	16.3	8.9	2.2	.5	.3	.9	56.5	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NM >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM) * OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >50YD	* OR >0
* OR >6500	.5	1.2	1.2	1.2	1.2	1.2	1.2	1.2
* OR >5000	.9	1.7	1.7	1.7	1.7	1.7	1.7	1.7
* OR >3500	2.4	3.9	4.0	4.0	4.0	4.0	4.0	4.0
* OR >2000	8.2	12.2	12.7	13.0	13.0	13.1	13.1	13.1
* OR >1000	19.0	27.1	28.7	29.1	29.3	29.3	29.4	29.4
* OR >600	23.1	33.8	36.2	36.9	37.0	37.2	37.3	37.3
* OR >300	23.9	35.1	37.7	38.5	38.7	38.9	39.0	39.0
* OR >150	24.1	35.5	38.1	39.1	39.2	39.4	39.6	39.6
* OR > 0	24.2	36.0	39.0	40.5	41.5	42.5	43.3	43.7
TOTAL	576	857	928	964	988	1011	1029	1038

TOTAL NUMBER OF OBS: 2378

PCT FREQ NM <5/8: 56.3

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
23.1	8.1	11.5	6.8	6.3	4.8	7.7	8.2	20.0	3.5	2490

DECEMBER

PERIOD: (PRIMARY) 1935-1973
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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	PCP	.0	.0	*	*	.1	.1	.1	*	.0	.0	.4	
<1/2	NO PCP	.7	.1	.1	.1	.5	.2	.3	.6	.0	.1	2.7	
	TOT %	.7	.1	.1	.1	.7	.3	.4	.6	.0	.1	3.1	
	PCP	.1	*	.1	.1	.2	*	.1	.1	.0	.0	.6	
1/2<1	NO PCP	.9	.2	*	.2	.3	.2	.4	.4	.0	*	2.1	
	TOT %	.9	.2	.1	.3	.5	.2	.4	.5	.0	*	2.7	
	PCP	*	.0	.0	.2	.4	.1	.1	*	.0	.0	.9	
1<2	NO PCP	.2	.1	.1	.1	.3	.1	.2	.3	.0	.1	1.4	
	TOT %	.3	.1	.1	.3	.7	.1	.3	.3	.0	.1	2.2	
	PCP	*	.1	.1	.4	.8	.2	.1	*	.0	.0	1.8	
2<5	NO PCP	.4	.4	.1	.6	.4	.2	.3	.5	.0	.1	3.1	
	TOT %	.4	.5	.2	1.0	1.3	.4	.4	.6	.0	.1	4.9	
	PCP	.2	.2	*	.5	1.1	.7	.4	.4	.0	.0	3.4	
5<10	NO PCP	9.6	1.9	1.1	2.4	3.4	1.8	2.1	5.0	.0	.7	23.9	
	TOT %	9.8	2.0	1.2	2.9	4.5	2.5	2.5	5.4	.0	.7	27.4	
	PCP	.1	.1	*	.1	.5	.1	.2	.2	.0	.0	1.4	
10+	NO PCP	16.1	4.8	2.5	3.0	4.8	4.6	5.9	15.2	.0	1.4	58.3	
	TOT %	16.2	4.9	2.5	3.1	5.3	4.7	6.2	15.4	.0	1.4	59.7	
	TOT OBS												3520
	TOT PCT	24.0	7.7	4.2	7.7	12.9	8.2	10.1	22.8	.0	2.4	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	0-3	*	.1	.1	.0	.1	*	.1	*	.0	.1	.5	
<1/2	4-10	.3	.1	*	.1	.4	.1	.1	.4	.0		1.6	
	11-21	.3	.0	*	*	.1	.1	.1	.2	.0		.9	
	22+	.0	.0	.0	.0	*	*	*	.0	.0		.1	
	TOT %	.7	.1	.1	.1	.6	.3	.4	.6	.0	.1	3.0	
	0-3	.1	.0	.0	.0	.1	.0	.1	.1	.0	*	.3	
1/2<1	4-10	.2	.1	.1	.1	.2	.1	.2	.3	.0		1.2	
	11-21	.3	.1	*	.1	.2	.1	.1	.1	.0		1.1	
	22+	*	.0	*	*	*	*	.0	*	.0		.2	
	TOT %	.5	.2	.1	.3	.5	.2	.4	.5	.0	*	2.7	
	0-3	*	.0	*	*	*	.0	*	*	.0	.1	.2	
1<2	4-10	.2	.1	.1	.2	.2	*	.1	.1	.0		.9	
	11-21	.1	.1	.1	.1	.2	.1	.1	.1	.0		.9	
	22+	.0	.0	.0	.1	.3	.1	*	.1	.0		.6	
	TOT %	.3	.1	.2	.4	.7	.2	.2	.4	.0	.1	2.6	
	0-3	.1	.1	*	.1	.1	.1	.1	.1	.0	.2	.8	
2<5	4-10	.1	.2	.1	.3	.3	.2	.2	.3	.0		1.8	
	11-21	.3	.1	.1	.4	.5	.1	.1	.3	.0		1.9	
	22+	*	.0	*	.4	.4	*	.0	.1	.0		1.0	
	TOT %	.5	.3	.3	1.1	1.3	.5	.4	.7	.0	.2	5.5	
	0-3	.4	.2	.1	.1	.3	.2	.3	.4	.0	.6	2.6	
5<10	4-10	2.0	.8	.6	.9	1.2	1.0	.9	1.9	.0		9.3	
	11-21	2.1	.7	.4	.7	1.5	.8	.9	2.3	.0		9.4	
	22+	1.2	.2	.0	1.0	1.3	.3	.3	1.0	.0		5.3	
	TOT %	5.7	1.9	1.1	2.7	4.3	2.4	2.4	5.5	.0	.6	26.6	
	0-3	.6	.2	.3	.3	.3	.3	.1	.6	.0	1.7	4.4	
10+	4-10	5.2	2.4	1.4	1.4	1.9	2.0	3.2	5.6	.0		23.2	
	11-21	7.0	1.7	.8	1.1	2.2	1.7	2.4	6.7	.0		23.6	
	22+	3.2	.7	*	.3	.8	.5	.4	2.5	.0		8.4	
	TOT %	16.0	4.9	2.5	3.2	5.1	4.5	6.1	13.5	.0	1.7	59.6	
	TOT OBS												3709
	TOT PCT	23.7	7.7	4.3	7.9	12.6	8.0	9.9	23.2	.0	2.8	100.0	

DECEMBER

PERIOD: (PRIMARY) 1935-1973
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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET,NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00E03	3.3	.5	1.5	9.3	15.9	7.9	2.8	.5	.2	.8	42.6	57.4	610
06E09	4.8	.6	2.1	7.0	17.8	8.5	1.6	.3	.4	.1	43.3	56.7	669
12E15	4.3	.5	1.6	6.5	14.9	9.2	2.5	.3	.5	.6	41.0	59.0	629
18E21	4.0	.8	1.9	8.3	15.0	9.8	2.3	.9	.2	2.1	45.3	54.7	528
TOT	100	14	43	189	389	215	56	12	8	21	1047	1389	2436
PCT	4.1	.6	1.8	7.8	16.0	8.8	2.3	.5	.3	.9	43.0	57.0	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00E03	3.1	3.3	2.9	5.6	30.2	55.3	1015
06E09	3.9	2.1	2.0	5.3	21.9	64.6	939
12E15	3.6	2.6	3.1	5.0	29.4	56.2	1021
18E21	2.9	2.6	2.9	6.4	25.6	59.6	816
TOT	129	102	100	210	1022	2228	3791
PCT	3.4	2.7	2.6	5.5	27.0	58.8	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET,NH >4/8),BY HOUR

HOUR (GMT)	<150 <500YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00E03	3.0	5.1	18.4	26.8	54.8	593
06E09	4.9	7.9	16.9	27.5	55.6	655
12E15	4.2	7.6	17.6	25.9	56.6	619
18E21	3.9	7.6	20.4	28.5	51.1	515
TOT	96	168	433	645	1300	2378
PCT	4.0	7.1	18.2	27.1	54.7	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
75/79	.0	.0	*	.0	.0	.0	.0	.0	1	*
70/74	*	.0	*	.2	.0	.0	.0	.0	6	.2
65/69	.0	.0	*	.2	.2	.2	*	.1	18	.7
60/64	*	*	.1	.3	1.5	1.9	3.4	2.0	235	9.3
55/59	.0	.1	.5	1.5	4.1	8.8	17.4	13.8	1172	46.2
50/54	.0	.2	.5	1.3	5.3	8.4	13.5	8.1	945	37.2
45/49	.0	.2	.2	.4	.9	1.1	1.9	.9	141	5.6
40/44	.0	.1	*	*	.1	.1	.2	.2	17	.7
35/39	.0	.0	*	*	.0	.0	*	*	4	.2
TOTAL	2	14	38	99	305	520	924	637	2539	100.0
PCT	.1	.6	1.5	3.9	12.0	20.5	36.4	25.1		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
	*	.0	.0	.0	.0	.0	.0	*	.0	.0
	*	.0	.0	*	*	*	.0	.1	.0	.0
	.1	.1	*	*	.0	.1	.1	.2	.0	.0
	1.6	.6	.2	1.1	1.8	1.7	.9	1.3	.0	.1
	10.4	2.7	1.7	4.4	7.6	6.4	4.8	9.4	.0	.8
	10.6	2.8	1.7	2.0	2.9	2.0	3.7	10.1	.0	1.3
	1.4	1.4	.4	.1	.1	.1	.5	1.2	.0	.4
	.1	.4	.1	.0	.0	.0	.0	.1	.0	.0
	.1	*	.0	.0	.0	.0	.0	*	.0	.0
	24.4	8.0	4.2	7.6	12.5	8.3	10.0	22.5	.0	2.6

TABLE 15

MEANS,EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	90%	5%	1%	MIN	MEAN	TOTAL OBS
00E03	75	66	62	55	50	46	42	55.8	1086
06E09	66	63	60	55	49	45	41	54.7	978
12E15	70	62	60	54	48	44	35	54.2	1090
18E21	73	66	63	56	49	44	39	55.8	911
TOT	75	64	61	55	49	45	35	55.1	4065

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00E03	.2	6.1	14.0	22.3	36.3	21.2	80	656
06E09	.0	4.6	9.3	20.4	38.9	26.8	83	678
12E15	.1	4.4	10.1	17.1	36.9	31.4	83	685
18E21	.0	9.6	15.6	22.8	32.2	19.9	79	544
TOT	2	153	309	525	930	644	81	2563

PERIOD: (PRIMARY) 1935-1973
(OVER-ALL) 1860-1973

AREA 0035 SAN FRANCISCO
36.9N 123.0W

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	33 36	37 40	41 44	45 48	49 52	53 56	57 60	61 64	65 68	69 72	73 76	TOT	W FOG	WO FOG
20/22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	1	.0	*
14/16	.0	.0	.0	.0	.0	*	*	.0	*	.1	.0	7	.0	.2
11/13	.0	.0	.0	.0	.0	*	.0	.1	.1	.1	.0	13	.0	.4
9/10	.0	.0	.0	.0	.0	.1	*	.1	.1	.0	.0	10	.1	.2
7/8	.0	.0	.0	.0	.1	.1	.3	.7	.2	.0	.0	46	.1	1.3
6	.0	.0	.0	.0	*	.1	.6	.5	.1	*	.0	49	.1	1.3
5	.0	.0	.0	.0	*	.2	1.0	.5	.1	.0	.0	62	.1	1.7
4	.0	.0	.0	.0	.1	.8	2.3	.8	.0	.0	.0	133	.5	3.6
3	.0	.0	.0	.0	.1	1.3	2.0	.6	.0	.0	.0	135	.4	3.6
2	.0	.0	.0	.0	.4	3.0	3.6	.9	*	.0	.0	269	.8	7.1
1	.0	.0	.0	.0	.1	4.0	3.3	.3	.0	.0	.0	260	1.1	6.6
0	.0	.0	.0	*	1.4	6.8	5.2	.6	.0	.0	.0	471	1.4	12.6
-1	.0	.0	.0	.0	1.4	6.8	2.7	.1	.0	.0	.0	376	.9	10.2
-2	.0	.0	.0	.1	2.5	7.5	2.6	.1	.0	.0	.0	430	1.1	11.6
-3	.0	.0	.0	.1	2.0	5.4	1.5	.1	.0	.0	.0	308	.7	8.4
-4	.0	.0	.0	.3	2.5	4.3	.6	*	.0	.0	.0	261	.6	7.1
-5	.0	.0	.0	.7	2.8	2.5	.5	*	.0	.0	.0	220	.4	6.1
-6	.0	.0	*	.6	1.5	1.1	.2	*	.0	.0	.0	114	.3	3.1
-7/-8	.0	.0	.2	.7	1.5	.8	.3	.0	.0	.0	.0	118	.2	3.3
-9/-10	.0	.0	.2	.4	.5	.2	*	.0	.0	.0	.0	47	*	1.4
-11/-13	.0	*	.3	.2	.2	.3	.0	.0	.0	.0	.0	33	.1	.9
-14/-16	.0	.1	.1	*	.1	*	.0	.0	.0	.0	.0	10	*	.3
-17/-19	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	.0	*
TOTAL	1	3	27	110	577	1537	898	186	25	9	1	3374	309	3065
PCT	*	.1	.8	3.3	17.1	45.6	26.6	5.5	.7	.3	*	100.0	9.2	90.8

PERIOD: (OVER-ALL) 1963-1973

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.5	.9	.0	.0	.0	.0	1.5
1-2	.2	2.8	1.3	.0	.0	.0	4.3
3-4	.1	1.4	2.8	.7	.0	.0	5.0
5-6	.1	1.1	3.5	1.3	.2	.0	6.2
7	.0	.1	1.1	1.3	.3	.0	2.8
8-9	.0	.0	.6	.7	.6	.0	2.0
10-11	.0	.0	.3	.3	.2	.0	.8
12	.0	.0	.2	.1	.0	.0	.3
13-16	.0	.0	.0	.3	.3	.0	.5
17-19	.0	.0	.0	.0	.1	.0	.1
20-22	.0	.0	.0	.0	.2	.0	.2
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.8	6.4	9.8	4.8	1.9	.0	23.7

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	1.2	.0	.0	.0	.0	1.3
1-2	*	1.2	.5	.0	.0	.0	1.8
3-4	.0	.7	.6	.2	.0	.0	1.6
5-6	.0	.2	.4	.2	.2	.0	1.0
7	.0	.0	.2	.1	*	.0	.3
8-9	.0	.0	*	.2	*	.0	.2
10-11	.0	.0	.0	.2	.0	.0	.2
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	3.3	1.8	.9	.2	.0	6.4

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.9	.1	.0	.0	.0	1.1
1-2	.0	.9	.5	.0	.0	.0	1.5
3-4	.0	.4	.3	.0	.0	.0	.7
5-6	.0	.2	.3	.1	.0	.0	.5
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.1	2.5	1.2	.1	.0	.0	3.8

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	.4	.0	.0	.0	.0	.6
1-2	.1	1.1	.9	.0	.0	.0	2.2
3-4	.0	.6	.5	.2	.0	.0	1.3
5-6	.0	.2	.4	.2	.1	.0	.9
7	.1	.0	.3	.2	.1	.0	.7
8-9	.0	.1	.1	*	.0	.0	.2
10-11	.0	.0	.1	.0	.1	.0	.2
12	.0	.0	.0	.1	.0	.0	.1
13-16	.0	.0	.0	*	*	.0	*
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.4	2.9	2.3	.7	.3	.0	6.2

PERIOD: (OVER-ALL) 1963-1979 DECEMBER

TABLE 18 (CONT) AREA 0035 SAN FRANCISCO 36.9N 123.8W

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

S

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	1.0	.0	.0	.0	.0	1.2
1-2	.2	1.8	.5	.0	.0	.0	2.5
3-4	.0	1.1	2.3	.5	.0	.0	3.9
5-6	.0	.4	2.0	.9	.1	.0	3.4
7	.0	.0	.8	.2	.0	.0	.7
8-9	.0	.0	.1	.2	.3	.0	.6
10-11	.0	.0	.0	.4	.0	.0	.4
12	.0	.0	.0	.2	.0	.0	.2
13-16	.0	.0	.0	.1	.1	.0	.1
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.4	4.2	5.4	2.5	.4	.0	13.0

SW

1-3	4-10	11-21	22-33	34-47	48+	PCT
.2	.2	.0	.0	.0	.0	.4
*	1.2	.5	.0	.0	.0	1.8
.0	.6	1.2	.3	.0	.0	2.1
.1	.2	1.2	.4	.0	.0	1.9
.0	.1	.5	.4	.0	.0	1.0
.0	.0	.4	*	.0	.0	.4
.0	.0	.1	.0	.0	.0	.1
.0	.0	.1	.0	.0	.0	.1
.0	*	.0	.2	.0	.0	.2
.0	.0	.0	.0	.0	.0	.0
.0	.0	.0	.0	.0	.0	.0
.0	.0	.0	.0	.0	.0	.0
.0	.0	.0	.0	.0	.0	.0
.0	.0	.0	.0	.0	.0	.0
.0	.0	.0	.0	.0	.0	.0
.0	.0	.0	.0	.0	.0	.0
.0	.0	.0	.0	.0	.0	.0
.0	.0	.0	.0	.0	.0	.0
.0	.0	.0	.0	.0	.0	.0
.4	2.3	4.0	1.3	.0	.0	8.0

W

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	1.0	.0	.0	.0	.0	1.2
1-2	.3	2.4	.8	.0	.0	.0	3.4
3-4	.2	.9	2.0	.1	.0	.0	3.3
5-6	.0	.6	.8	.4	.0	.0	1.9
7	.0	.2	.9	.1	.1	.0	1.3
8-9	.0	.0	.3	.1	.0	.0	.3
10-11	.0	.1	.2	.3	.0	.0	.5
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.1	.0	.0	.0	.0	.1
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.6	5.2	5.0	1.0	.1	.0	11.9

NW

1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
.4	1.0	.0	.0	.0	.0	1.4	
.3	2.5	1.6	.0	.0	.0	4.4	
.1	1.4	4.2	.6	.0	.0	6.3	
*	.9	2.9	1.0	.0	.0	4.9	
.0	.2	1.6	1.2	.1	.0	3.1	
.0	.1	.8	.5	.1	.0	1.5	
.0	*	.3	.6	.1	.0	1.1	
.0	.0	.1	.0	.0	.0	.1	
.0	.0	.0	.5	.3	.0	.8	
.0	.0	.0	.0	*	.0	*	
.0	.0	.0	.0	.0	.0	.0	
.0	.0	.0	.0	.0	.0	.0	
.0	.0	.0	.0	.0	.0	.0	
.0	.0	.0	.0	.0	.0	.0	
.0	.0	.0	.0	.0	.0	.0	
.0	.0	.0	.0	.0	.0	.0	
.0	.0	.0	.0	.0	.0	.0	
.0	.0	.0	.0	.0	.0	.0	
.0	.0	.0	.0	.0	.0	.0	
.8	6.1	11.5	4.5	.7	.0	23.6	96.5

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	5.4	6.7	.1	.0	.0	.0	12.2	
1-2	1.2	14.1	6.7	.0	.0	.0	22.0	
3-4	.4	7.1	13.8	2.6	.0	.0	23.9	
5-6	.3	3.8	11.5	4.6	.6	.0	23.7	
7	.1	.6	5.2	3.6	.7	.0	9.8	
8-9	.0	.2	2.3	1.8	1.0	.0	5.3	
10-11	.0	.1	.9	1.8	.5	.0	3.3	
12	.0	.0	.4	.4	.0	.0	.8	
13-16	.0	.1	.0	1.0	.7	.0	1.8	
17-19	.0	.0	.0	.0	.1	.0	.1	
20-22	.0	.0	.0	.0	.2	.0	.2	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	7.4	32.6	40.8	15.6	3.7	.0	100.0	1066

PERIOD: (OVER-ALL) 1949-1979

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	1.4	8.8	13.7	6.4	2.8	1.7	.6	.1	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	822	4
6-7	*	1.3	4.6	7.4	5.2	3.1	1.4	1.0	.3	.0	.1	*	.0	.0	.0	.0	.0	.0	.0	564	6
8-9	.0	.4	1.8	3.1	3.2	3.4	2.8	1.0	.7	.3	.1	.1	.0	.0	.0	.0	.0	.0	.0	386	8
10-11	.0	.2	.8	1.0	1.9	2.2	1.3	.7	1.0	.2	.1	.1	*	.0	.0	.0	.0	.0	.0	217	9
12-13	.0	.0	.4	.3	.4	.5	.6	.5	.5	.2	.1	*	*	.0	.0	.0	.0	.0	.0	80	10
>13	.0	.0	.0	.2	.3	.4	.4	.4	.1	.2	*	.0	.0	.0	.0	.0	.0	.0	.0	66	11
INDET	3.0	1.0	.8	.8	.3	.6	.2	*	.1	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	158	5
TOTAL	102	267	505	439	330	272	167	86	78	17	15	7	2	0	0	0	0	0	0	2287	6
PCT	4.5	11.7	22.1	19.2	14.4	11.9	7.3	3.8	3.4	.7	.7	.3	.1	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1935-1974
(OVER-ALL) 1854-1974

AREA 0035 SAN FRANCISCO
37.0N 123.0W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA				
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG	DUST BLWG SNOW	NO SIG WEA
N	.3	.3	1.3	.0	.0	.0	*	1.9	.6	*	7.3	.3	4.0	.1	85.8
NE	1.3	.7	1.2	.0	.0	.0	.0	3.1	.8	*	8.2	.3	5.6	.1	82.0
E	*.1	.7	2.1	.0	.0	.0	.0	6.9	1.8	*	14.3	.5	5.6	*	71.0
SE	8.2	1.3	5.5	.0	.0	.0	*	13.5	2.3	.2	14.8	.4	4.8	.1	63.9
S	7.1	2.0	5.7	.0	.0	.0	*	14.0	2.4	.1	15.7	.6	3.8	*	63.4
SW	3.9	1.7	3.7	.0	.0	.0	*	9.0	2.3	.1	15.1	.5	4.1	.0	68.9
W	1.8	.8	2.3	.0	.0	.0	*	4.7	1.8	.1	12.9	.5	4.8	*	75.2
NW	.5	.4	1.3	.0	.0	.0	*	2.2	.9	.1	9.2	.3	4.1	.1	83.1
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.4	.2	2.3	.0	.0	.0	.0	2.8	1.0	.1	21.2	.8	9.5	.0	64.7
TOT PCT	2.0	.7	2.3	.0	.0	.0	*	4.8	1.2	.1	10.4	.4	4.5	.1	78.6
TOT OBS: 52987															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA				
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG	DUST BLWG SNOW	NO SIG WEA
00&03	2.1	.8	1.8	.0	.0	.0	*	4.4	1.0	.1	10.2	.4	5.8	.1	78.1
06&09	2.1	.6	2.5	.0	.0	.0	*	4.9	1.3	.2	8.8	.3	3.0	.1	81.5
12&15	2.1	.8	3.1	.0	.0	.0	*	5.9	1.4	.1	11.3	.3	3.0	*	78.0
18&21	1.9	.6	1.8	.0	.0	.0	*	4.1	1.2	*	11.9	.5	6.2	.1	76.1
TOT PCT	2.0	.7	2.3	.0	.0	.0	*	4.8	1.2	.1	10.6	.4	4.5	.1	78.4
TOT OBS: 53810															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	.8	5.6	10.7	5.2	.6	*		22.8	16.4	21.5	19.7	25.0	21.5	23.4	24.1	24.3	20.8
NE	.3	1.6	1.1	.2	*	*		3.2	10.8	2.4	2.6	2.8	2.5	3.7	4.3	4.0	3.7
E	.4	1.2	.6	.1	*	.0		2.3	8.3	1.7	1.7	1.7	2.0	2.2	3.4	3.3	2.7
SE	.5	1.9	1.4	.5	.1	*		4.5	11.1	3.9	4.4	3.4	4.0	3.8	6.0	5.8	6.1
S	.6	3.1	2.8	.9	.1	.0		7.6	11.4	7.8	7.0	7.4	7.1	6.8	7.6	8.5	8.8
SW	.7	3.4	2.1	.3	*	*		6.4	9.8	6.6	7.4	5.9	6.3	6.1	6.6	6.1	7.8
W	.9	5.7	4.0	.7	.1	.0		11.4	10.9	12.5	12.4	11.8	11.6	11.2	10.2	10.2	10.9
NW	1.1	10.5	18.6	7.6	.7	*		38.4	15.3	41.1	42.0	39.0	41.3	38.5	34.6	34.1	36.3
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	3.3							3.3	.0	2.5	2.8	3.1	3.7	4.3	3.2	3.8	3.0
TOT OBS							58544		13.7	10617	4378	10132	4169	10732	4353	8748	5415
TOT PCT	8.5	33.0	41.4	15.5	1.6	*		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	2.6	9.5	8.6	2.0	.1		22.8	16.4	20.9	23.9	23.6	22.9
NE	1.0	1.6	.5	.1	*		3.2	10.8	2.5	2.7	3.8	3.9
E	.9	1.1	.2	*	.0		2.3	8.3	1.7	1.7	2.5	3.0
SE	1.4	2.0	.9	.3	*		4.5	11.1	4.1	3.6	4.4	5.9
S	1.9	3.6	1.7	.4	*		7.6	11.4	7.6	7.3	7.1	8.6
SW	2.1	3.3	.9	.1	*		6.4	9.8	6.8	6.0	6.2	6.7
W	3.2	6.3	1.7	.2	*		11.4	10.9	12.5	11.7	10.9	10.5
NW	4.4	17.5	13.7	2.7	.1		38.4	15.3	41.4	39.6	37.4	35.0
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	3.3						3.3	.0	2.6	3.3	4.0	3.5
TOT OBS						58544		13.7	14995	14301	15089	14163
TOT PCT	20.8	44.9	28.2	5.8	.2		100.0		100.0	100.0	100.0	100.0

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	2.6	4.6	31.5	42.5	17.1	1.7	*	14.2	100.0	14995
06&09	3.3	4.3	31.7	42.2	16.8	1.7	*	14.1	100.0	14301
12&15	4.0	5.6	33.8	40.5	14.5	1.5	*	13.4	100.0	15085
18&21	3.5	6.0	35.0	40.1	13.7	1.6	*	13.2	100.0	14163
TOT								13.7		58544
PCT	3.3	5.1	33.0	41.4	15.5	1.6	*		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	10.2	2.8	4.9	6.3		4.0
NE	1.6	.3	.6	.8		4.1
E	.8	.2	.5	.7		5.0
SE	.7	.3	.9	2.2		6.0
S	.9	.6	1.7	4.2		6.3
SW	1.1	.5	1.5	2.9		5.8
W	3.5	1.3	2.4	4.2		4.9
NW	15.8	4.2	7.1	10.8		4.0
VAR	.0	.0	.0	.0		.0
CALM	1.3	.2	.5	1.3		4.6
TOT OBS					37670	4.5
TOT PCT	35.9	10.5	20.1	33.6	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.7	.1	.8	2.3	3.6	1.7	.3	.1	.1	.1	14.5	
NE	.1	*	.1	.2	.4	.3	*	*	*	*	2.2	
E	.1	*	*	.1	.3	.2	.1	*	*	.1	1.3	
SE	.3	*	.2	.5	.8	.5	.2	.1	*	.1	1.4	
S	.5	.1	.3	1.1	1.6	.9	.3	.1	*	.1	2.3	
SW	.4	.1	.2	.6	1.3	.7	.2	.1	.1	.1	2.4	
W	.6	.1	.3	.9	2.1	1.1	.3	*	*	.1	5.8	
NW	1.4	.2	1.2	3.4	5.7	2.6	.6	.1	.1	.2	22.3	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.4	*	.1	.2	.4	.3	*	*	*	*	1.8	
TOT OBS												37670
TOT PCT	4.5	.7	3.3	9.2	16.3	8.3	2.1	.5	.4	.7	54.0	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM) * OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >50YD	* OR >0
* OR >6500	.6	1.0	1.0	1.1	1.1	1.1	1.1	1.1
* OR >5000	1.0	1.5	1.6	1.6	1.6	1.6	1.6	1.6
* OR >3500	2.3	3.5	3.7	3.7	3.7	3.7	3.7	3.7
* OR >2000	7.9	11.4	11.9	12.0	12.0	12.1	12.1	12.1
* OR >1000	17.7	26.5	27.9	28.1	28.2	28.2	28.3	28.3
* OR >600	22.0	34.6	36.7	37.1	37.3	37.3	37.4	37.4
* OR >300	23.0	37.0	39.7	40.2	40.5	40.6	40.7	40.7
* OR >150	23.2	37.4	40.3	40.8	41.1	41.3	41.4	41.4
* OR > 0	23.3	38.1	41.4	42.5	43.6	44.4	45.5	45.9

TOTAL NUMBER OF OBS: 37997 PCT FREQ NH <5/8: 54.1

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
26.3	8.0	8.9	5.8	4.5	4.1	6.2	6.8	25.5	3.8	39599

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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	PCP	*	*	*	*	.1	*	*	.1	.0	*	.2	
<1/2	NO PCP	.5	.1	.1	.2	.3	.2	.4	1.0	.0	.2	3.0	
	TOT %	.5	.1	.1	.2	.4	.3	.4	1.0	.0	.2	3.3	
	PCP	*	*	*	*	.1	*	*	*	.0	*	.3	
1/2<1	NO PCP	.4	.1	.1	.1	.2	.2	.3	.7	.0	.1	2.2	
	TOT %	.4	.1	.1	.2	.3	.3	.4	.7	.0	.1	2.4	
	PCP	*	*	*	.1	.1	*	*	*	.0	*	.3	
1<2	NO PCP	.2	*	*	.1	.2	.1	.2	.4	.0	.1	1.3	
	TOT %	.2	*	.1	.2	.3	.2	.2	.4	.0	.1	1.6	
	PCP	.1	*	*	.2	.3	.1	.1	.1	.0	*	1.0	
2<5	NO PCP	.7	.1	.1	.2	.3	.3	.5	1.2	.0	.3	3.7	
	TOT %	.8	.2	.1	.4	.6	.4	.6	1.3	.0	.3	4.7	
	PCP	.2	*	.1	.3	.6	.3	.3	.4	.0	*	2.2	
5<10	NO PCP	5.8	.8	.6	1.3	2.0	1.7	2.9	9.6	.0	.7	25.3	
	TOT %	6.0	.8	.7	1.6	2.6	2.0	3.2	9.9	.0	.8	27.6	
	PCP	.1	*	*	.1	.1	.1	.1	.2	.0	*	.7	
10+	NO PCP	15.4	2.0	1.2	1.8	3.4	3.3	6.7	24.4	.0	1.4	59.7	
	TOT %	15.5	2.1	1.2	1.9	3.6	3.4	6.7	24.6	.0	1.5	60.4	
	TOT OBS												52906
	TOT PCT	23.4	3.2	2.2	4.4	7.7	6.5	11.5	38.1	.0	2.9	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	0-3	*	*	*	*	.1	.1	.1	.1	.0	.3	.7	
<1/2	4-10	.2	*	.1	.1	.2	.2	.3	.5	.0		1.6	
	11-21	.2	*	*	.1	.1	.1	.1	.4	.0		1.0	
	22+	*	.0	.0	*	*	*	*	*	.0		.1	
	TOT %	.5	.1	.1	.2	.4	.3	.4	1.1	.0	.3	3.4	
	0-3	*	*	*	*	*	*	*	*	.0	.1	.3	
1/2<1	4-10	.1	*	*	.1	.1	.1	.2	.3	.0		1.0	
	11-21	.2	*	*	.1	.1	.1	.1	.3	.0		.9	
	22+	.1	*	*	*	*	*	*	.1	.0		.2	
	TOT %	.4	.1	.1	.2	.3	.3	.3	.7	.0	.1	2.4	
	0-3	*	*	*	*	*	*	*	*	.0	.1	.2	
1<2	4-10	.1	*	*	.1	.1	.1	.1	.2	.0		.8	
	11-21	.1	*	*	*	.1	.1	.1	.2	.0		.7	
	22+	*	.0	.0	*	.1	*	*	.1	.0		.2	
	TOT %	.2	*	.1	.2	.3	.2	.3	.5	.0	.1	1.9	
	0-3	.1	*	*	*	.1	*	.1	.1	.0	.3	.7	
2<5	4-10	.3	.1	.1	.1	.2	.2	.3	.6	.0		1.9	
	11-21	.4	.1	*	.1	.3	.1	.2	.7	.0		1.9	
	22+	.2	*	*	.1	.2	*	*	.2	.0		.7	
	TOT %	.9	.2	.1	.4	.7	.5	.6	1.6	.0	.3	5.2	
	0-3	.2	.1	.1	.1	.2	.2	.3	.3	.0	.8	2.3	
5<10	4-10	1.3	.4	.3	.6	1.0	1.0	1.6	2.6	.0		8.8	
	11-21	2.8	.3	.2	.5	.9	.6	1.0	4.8	.0		11.1	
	22+	1.5	.1	*	.3	.5	.2	.2	2.2	.0		4.8	
	TOT %	5.9	.8	.7	1.5	2.5	1.9	3.1	9.8	.0	.8	27.0	
	0-3	.4	.2	.2	.2	.2	.3	.3	.5	.0	1.6	3.8	
10+	4-10	3.4	1.0	.7	.9	1.5	1.7	3.2	6.1	.0		18.6	
	11-21	7.3	.7	.4	.7	1.4	1.2	2.6	12.2	.0		26.4	
	22+	4.2	.2	*	.2	.4	.2	.5	5.8	.0		11.4	
	TOT %	15.3	2.1	1.2	1.9	3.5	3.3	6.7	24.6	.0	1.6	60.2	
	TOT OBS												55584
	TOT PCT	23.2	3.2	2.2	4.4	7.7	6.4	11.4	38.3	.0	3.2	100.0	

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET,NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00&03	3.6	.8	2.9	8.8	15.6	7.7	2.4	.5	.5	.9	43.7	56.3	9802
06&09	4.2	.6	2.9	7.3	14.4	8.3	1.7	.5	.3	.5	40.6	59.4	10166
12&15	5.4	.7	3.4	9.3	16.9	8.3	2.1	.4	.3	.5	47.3	52.7	9376
18&21	4.7	.9	3.8	10.7	17.1	8.6	2.3	.7	.4	.8	49.9	50.1	9414
TOT PCT	4.5	.7	3.2	9.0	16.0	8.2	2.1	.5	.4	.7	45.3	54.7	38758 100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00&03	3.3	2.8	1.8	4.9	28.5	58.6	14410
06&09	3.2	1.9	1.4	4.3	24.5	64.7	13961
12&15	4.0	2.7	1.9	5.5	27.2	58.7	14529
18&21	3.4	2.5	2.3	6.1	28.0	57.8	13512
TOT PCT	3.5	2.5	1.9	5.2	27.1	59.9	56412 100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET,NH >4/8),BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	3.6	7.9	19.4	26.5	54.1	9597
06&09	4.2	8.3	18.1	24.5	57.4	9959
12&15	5.5	10.4	22.6	27.0	50.5	9195
18&21	4.8	10.5	24.8	28.2	47.0	9246
TOT PCT	4.5	9.3	21.2	26.5	52.3	37997 100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
80/84	*	*	*	*	*	.0	.0	.0		*
75/79	*	*	*	*	*	*	*	.0		.2
70/74	*	*	*	.1	.1	.1	.1	*		.5
65/69	.0	*	.1	.2	.4	1.0	1.1	.5		3.3
60/64	*	*	.1	.3	1.3	4.6	8.8	4.5		19.7
55/59	.0	*	.1	.5	2.0	7.4	18.8	12.9		41.7
50/54	.0	*	.1	.6	3.1	5.4	12.2	8.8		30.2
45/49	.0	*	.1	.2	.5	.9	1.2	1.1		4.0
40/44	.0	*	*	*	*	.1	*	.1		.3
35/39	.0	.0	*	*	.0	*	*	*		*
TOTAL PCT	*	.2	.6	1.9	7.6	19.6	42.2	27.9	37860	100.0

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
*	*	.0	.0	*	*	.0	*	.0	.0
*	*	*	*	*	*	*	*	.0	*
.1	*	*	*	*	*	.1	.2	.0	*
.8	.1	.1	.1	.2	.2	.5	1.2	.0	.2
5.1	.5	.3	.7	1.4	1.3	2.2	7.7	.0	.6
9.5	1.1	.9	2.1	3.7	2.8	4.5	16.0	.0	1.2
7.6	1.0	.7	1.2	2.0	1.6	3.7	11.7	.0	.8
1.0	.3	.2	.1	.2	.2	.5	1.4	.0	.1
.1	.1	*	*	*	*	*	*	.0	*
*	*	*	*	.0	.0	.0	*	.0	*
24.1	3.2	2.1	4.2	7.5	6.2	11.5	38.3	.0	2.9

TABLE 15

MEANS,EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00&03	83	69	64	57	52	49	37	57.5	15149
06&09	82	64	61	56	51	49	38	55.9	14407
12&15	84	68	61	55	50	48	34	55.3	15267
18&21	83	69	64	57	51	49	32	57.3	14268
TOT	84	67	63	56	51	49	32	56.5	59091

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00&03	*	3.3	9.1	23.7	42.1	21.8	82	9867
06&09	.0	1.6	5.7	16.2	44.6	31.8	85	9686
12&15	*	1.9	5.4	15.3	43.1	34.4	86	9731
18&21	*	4.1	10.1	23.3	38.7	23.7	82	9062
TOT	7	992	2822	7459	16273	10773	84	38326

PERIOD: (PRIMARY) 1935-1974
(OVER-ALL) 1854-1974

AREA 0035 SAN FRANCISCO
37.0N 123.0W

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA	29	33	37	41	45	49	53	57	61	65	69	73	77	81	TOT	W	WO
TMP DIF	32	36	40	44	48	52	56	60	64	68	72	76	80	84		FOG	FOG
23/25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	*	2	.0	*
20/22	.0	.0	.0	.0	.0	.0	.0	.0	*	.0	*	*	*	.0	11	*	*
17/19	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	*	*	*	*	39	*	.1
14/16	.0	.0	.0	.0	.0	.0	*	*	*	.1	.1	*	*	.0	131	*	.2
11/13	.0	.0	.0	.0	.0	*	*	*	.2	.2	.1	*	*	*	306	*	.6
9/10	.0	.0	.0	.0	.0	*	*	.2	.4	.3	.1	*	*	.0	487	.1	.9
7/8	.0	.0	.0	.0	*	*	.1	.6	.8	.4	.1	*	*	*	1051	.2	1.9
6	.0	.0	.0	.0	*	*	.2	.7	.6	.2	.1	*	*	*	907	.2	1.6
5	.0	.0	.0	*	*	*	.4	1.3	.9	.3	.1	*	*	.0	1522	.3	2.7
4	.0	.0	.0	.0	*	.1	1.0	2.1	1.4	.3	*	*	*	*	2445	.5	4.4
3	.0	.0	.0	.0	*	.1	1.4	2.4	1.0	.3	*	*	*	.0	2034	.5	4.8
2	.0	.0	*	*	*	.5	2.9	3.8	2.0	.3	*	*	*	.0	4814	1.1	8.6
1	.0	.0	.0	*	*	.7	3.9	3.5	1.3	.2	*	*	*	.0	4817	1.1	8.6
0	.0	.0	*	*	*	1.7	6.1	4.9	1.9	.2	*	*	*	.0	7246	1.5	13.3
-1	.0	.0	.0	.0	*	1.9	5.1	3.0	1.0	.1	*	*	*	.0	5515	1.3	9.9
-2	.0	.0	.0	.0	.2	2.8	4.9	2.8	.8	.1	*	*	*	.0	5734	1.3	10.4
-3	.0	.0	.0	.0	.2	2.2	3.0	1.6	.6	.1	*	*	*	.0	3738	.8	6.9
-4	.0	.0	.0	.0	.4	2.1	2.1	1.1	.4	*	*	*	*	.0	2956	.6	5.5
-5	.0	*	.0	.0	.3	1.5	1.2	.7	.2	*	*	*	.0	.0	1937	.4	3.6
-6	.0	.0	.0	*	.3	.8	.7	.5	.1	*	.0	.0	.0	.0	1135	.3	2.1
-7/-8	.0	.0	*	.1	.3	.7	.6	.5	.1	*	.0	.0	.0	.0	1128	.2	2.1
-9/-10	*	.0	*	*	.2	.2	.3	.1	*	.0	.0	.0	.0	.0	439	.1	.8
-11/-13	.0	*	*	.1	.1	.1	.2	*	*	.0	.0	.0	.0	.0	240	.1	.4
-14/-16	.0	*	*	*	*	*	*	*	.0	.0	.0	.0	.0	.0	57	.0	.1
-17/-19	.0	*	*	.0	*	*	*	*	*	.0	.0	.0	.0	.0	20	*	*
-20/-22	.0	.0	.0	.0	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	1	.0	*
TOTAL															49412		
PCT	*	*	.1	.2	2.3	15.7	34.1	29.8	13.8	3.0	.7	.2	.1	*	100.0	10.5	89.5

PERIOD: (OVER-ALL) 1963-1974

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	.8	*	.0	.0	.0	1.1
1-2	.1	2.2	1.6	.0	.0	.0	3.9
3-4	*	1.3	3.5	.8	.0	.0	5.6
5-6	*	.4	3.0	1.2	.1	.0	4.7
7	.0	.1	1.6	1.4	.1	.0	3.2
8-9	.0	*	.6	1.1	.2	.0	1.9
10-11	.0	.0	.3	.7	.1	.0	1.2
12	.0	*	.1	.3	.1	.0	.4
13-16	.0	.0	*	.2	.2	.0	.5
17-19	.0	.0	*	*	*	.0	*
20-22	.0	.0	.0	.0	*	.0	*
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.4	4.8	10.9	5.6	.8	.0	22.6

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.5	.1	.0	.0	.0	.7
1-2	*	.6	.3	.0	.0	.0	.9
3-4	*	.3	.4	.1	.0	.0	.9
5-6	*	*	.2	.1	*	.0	.3
7	.0	*	.1	*	*	.0	.1
8-9	.0	*	*	*	*	.0	.1
10-11	.0	.0	*	*	.0	.0	*
12	.0	.0	.0	*	.0	.0	*
13-16	.0	*	*	.0	.0	.0	*
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	*	.0	.0	.0	*
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	1.5	1.1	.3	*	.0	3.1

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.5	.1	.0	.0	.0	.7
1-2	*	.5	.3	.0	.0	.0	.9
3-4	*	.2	.2	*	.0	.0	.5
5-6	.0	*	.1	*	.0	.0	.2
7	.0	.0	*	.0	*	.0	*
8-9	.0	.0	.0	*	.0	.0	*
10-11	.0	.0	.0	*	.0	.0	*
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	1.3	.8	.1	*	.0	2.3

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.6	.1	.0	.0	.0	.8
1-2	.1	.7	.4	.0	.0	.0	1.2
3-4	*	.3	.6	.1	.0	.0	1.1
5-6	.0	.1	.3	.2	*	.0	.6
7	*	*	.2	.2	*	*	.4
8-9	.0	*	*	*	*	.0	.1
10-11	.0	*	*	*	*	.0	.1
12	.0	.0	*	*	*	.0	.1
13-16	.0	.0	.0	*	*	.0	*
17-19	.0	.0	.0	.0	*	.0	*
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	1.8	1.6	.6	.1	*	4.4

PERIOD: (OVER-ALL) 1963-1974 ANNUAL AREA 0035 SAN FRANCISCO 37.0N 123.6W

TABLE 19 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

	S							SW						
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	.9	.1	.0	.0	.0	1.2	.3	.9	.1	.0	.0	.0	1.3
1-2	.1	1.2	.7	.0	.0	.0	2.0	.1	1.1	.4	.0	.0	.0	1.6
3-4	*	.6	1.2	.1	.0	.0	1.9	*	.5	.6	.1	.0	.0	1.2
5-6	*	.2	.8	.3	*	.0	1.3	*	.2	.5	.1	*	.0	.8
7	.0	*	.3	.2	*	.0	.5	.0	*	.2	.1	*	.0	.4
8-9	.0	*	.1	.2	*	.0	.3	.0	*	.1	.1	*	.0	.2
10-11	.0	*	*	.1	*	.0	.2	.0	*	*	*	*	.0	.1
12	.0	.0	*	*	*	.0	.1	.0	.0	*	*	*	.0	*
13-16	.0	.0	*	*	*	.0	.1	.0	*	*	*	*	.0	*
17-19	.0	.0	.0	.0	*	.0	*	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	2.9	3.2	1.0	.2	.0	7.7	.5	2.7	2.0	.4	*	.0	5.7

	W							NW							TOTAL
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	PCT
<1	.3	1.4	.2	.0	.0	.0	1.9	.3	1.9	.2	.0	.0	.0	2.4	
1-2	.2	2.4	1.4	.0	.0	.0	3.9	.2	3.7	3.6	.0	.0	.0	7.5	
3-4	*	1.2	1.5	.3	.0	.0	3.1	*	2.2	6.8	1.7	.0	.0	10.8	
5-6	*	.3	.8	.2	*	.0	1.3	*	.8	4.9	1.7	.1	.0	7.6	
7	*	.1	.4	.1	*	.0	.6	.0	.2	2.6	1.9	.1	.0	4.9	
8-9	*	*	.2	.1	*	.0	.3	*	.1	1.0	1.5	.1	.0	2.7	
10-11	.0	*	*	.1	*	.0	.1	.0	*	.6	1.0	.1	.0	1.7	
12	.0	.0	*	*	.0	.0	*	.0	.0	.1	.4	.1	*	.6	
13-16	.0	*	*	*	*	.0	*	.0	*	.1	.4	.2	.0	.7	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	*	*	.0	.1	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	*	.0	*	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.5	5.6	4.4	.8	.1	.0	11.4	.6	9.0	20.0	8.7	.8	*	39.1	96.0

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	5.6	7.7	.8	.0	.0	.0	14.1	
1-2	1.0	12.3	8.7	.0	.0	.0	22.1	
3-4	.2	6.7	14.8	3.4	.0	.0	25.1	
5-6	.1	2.0	10.4	3.8	.3	.0	16.7	
7	*	.5	5.5	3.8	.3	*	10.2	
8-9	*	.2	2.0	2.9	.4	.0	5.6	
10-11	.0	.1	1.1	2.0	.3	.0	3.5	
12	.0	*	.3	.8	.2	*	1.3	
13-16	.0	*	.2	.8	.4	.0	1.4	
17-19	.0	.0	*	.1	*	.0	.1	
20-22	.0	.0	*	*	.1	.0	.1	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
								16485
TOT PCT	6.9	29.6	43.9	17.5	2.1	*	100.0	

PERIOD: (OVER-ALL) 1949-1973 TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	1.6	8.7	14.1	6.9	3.3	1.4	.6	.2	.2	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	12850	4
6-7	.1	1.5	6.6	7.5	5.7	3.2	1.9	.8	.6	.1	.1	*	*	.0	.0	.0	.0	.0	.0	9688	6
8-9	*	.6	2.1	2.9	3.8	2.8	2.1	.9	.9	.2	.1	*	.0	.0	.0	.0	.0	.0	.0	5660	7
10-11	.0	.5	.7	1.0	1.3	1.3	1.0	.7	.7	.2	.1	*	*	.0	.0	.0	.0	.0	.0	2540	8
12-13	.0	.0	.4	.3	.4	.4	.4	.3	.4	.1	.1	*	*	.0	.0	.0	.0	.0	.0	928	9
>13	.0	.0	.0	.1	.2	.2	.2	.1	.2	*	.1	*	*	.0	.0	.0	.0	.0	.0	391	11
INDET	3.3	1.0	.7	.6	.4	.3	.1	.1	.1	*	*	.0	.0	.0	.0	.0	.0	.0	.0	2326	2
TOTAL																				34383	5
PCT	5.0	12.3	24.7	19.4	15.2	9.7	6.4	3.1	3.1	.6	.4	.1	*	.0	.0	.0	.0	.0	.0	100.0	

TABLE 20

PERCENT FREQUENCY OF OCCURRENCE OF SEA TEMP (DEG F) BY MONTH

SEA TMP DEG F	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN	PCT
96+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
95/96	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
93/94	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
91/92	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
89/90	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
87/88	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
85/86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
83/84	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
81/82	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
79/80	.0	.0	.0	.0	.0	.0	.0	.0	*	.0	.0	.0	1	*
77/78	.0	.0	.0	.0	.0	.0	.1	.2	.2	.0	.0	.0	21	*
75/76	.0	.0	.0	*	*	.0	.1	.1	.1	*	.0	.0	19	*
73/74	.0	.0	.0	*	*	.1	*	.3	.2	.2	*	.0	39	.1
71/72	.0	*	*	*	*	.1	*	.2	.5	.2	*	.0	56	.1
69/70	.0	*	*	.1	.1	.3	.3	.3	.9	.5	.2	*	130	.2
67/68	*	.1	.1	.1	.1	.6	.9	1.2	3.6	1.9	.5	.3	439	.F
65/66	.1	.3	.3	.2	.3	1.4	2.6	5.4	8.3	4.4	1.8	.9	1220	[illegible]
63/64	.6	.3	.4	.4	.8	3.6	7.1	11.5	14.7	11.7	5.1	1.4	2728	5.0
61/62	1.3	.7	.6	1.3	2.9	6.0	12.5	16.4	20.4	16.9	9.6	3.8	4365	8.0
59/60	4.1	3.4	2.8	3.2	6.5	11.8	19.7	21.8	19.0	24.1	20.1	13.1	6973	12.7
57/58	14.0	10.9	11.8	10.8	15.9	23.3	21.7	17.7	15.5	20.4	28.6	23.6	9835	17.9
55/56	28.6	28.6	27.8	24.9	26.2	24.3	18.7	15.4	11.9	13.3	20.1	29.3	12163	22.2
53/54	29.1	28.0	28.9	28.4	23.8	17.1	11.0	6.7	3.5	4.4	9.8	17.8	9356	17.1
51/52	15.2	19.9	17.8	19.4	15.7	7.6	4.0	2.1	1.1	1.6	2.9	7.4	5117	9.3
49/50	5.0	5.9	7.4	9.1	6.2	2.6	1.2	.7	.3	.4	.8	2.3	1876	3.4
47/48	1.2	1.1	1.4	1.4	1.2	.5	.1	.2	*	*	.2	.3	343	.6
45/46	.3	.4	.4	.5	.2	.4	.0	*	.0	*	*	.2	109	.2
43/44	.1	.1	*	.1	*	.1	.0	.0	.0	.0	.0	.1	22	*
41/42	*	.1	*	.1	*	.0	.0	.0	.0	.0	.0	.1	15	*
39/40	*	*	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	10	*
37/38	.0	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	*
35/36	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
33/34	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
31/32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
29/30	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
27/28	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
<27	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
TOTAL	4367	4009	4509	4580	4611	5143	5112	4613	4790	4686	4572	3846	54838	100.0
MEAN	54.5	54.2	54.1	54.0	54.8	56.5	58.1	59.2	60.4	59.5	57.8	56.1	56.6	

TABLE 21

PRESSURE (MB)

AVERAGE BY HOUR (GMT)

MO	0000	0300	0600	0900	1200	1500	1800	2100	MEAN	TOTAL OBS
JAN	1019	1019	1020	1019	1020	1019	1021	1019	1020	4278
FEB	1019	1019	1020	1020	1019	1020	1020	1020	1020	4024
MAR	1019	1018	1020	1018	1019	1018	1021	1018	1019	4283
APR	1018	1017	1019	1017	1018	1018	1020	1018	1018	4526
MAY	1018	1017	1018	1017	1019	1017	1019	1017	1018	4561
JUN	1016	1015	1016	1016	1015	1015	1016	1016	1016	5078
JUL	1016	1015	1016	1015	1016	1015	1017	1016	1016	4938
AUG	1016	1015	1016	1015	1015	1015	1017	1016	1016	4355
SEP	1015	1014	1015	1014	1014	1015	1016	1015	1015	4373
OCT	1017	1016	1017	1017	1017	1017	1018	1017	1017	4190
NOV	1018	1019	1019	1019	1018	1020	1019	1020	1019	4239
DEC	1019	1017	1020	1018	1019	1018	1021	1018	1019	3349
ANN	1018	1017	1018	1017	1017	1017	1019	1018	1018	52134
OBS	9708	3071	10139	2949	9621	3527	8756	4383		

PERCENTILES

MO	MIN	1%	5%	25%	50%	75%	95%	99%	MAX
JAN	995	1002	1008	1016	1021	1024	1029	1032	1036
FEB	991	1001	1008	1016	1020	1024	1029	1032	1035
MAR	994	1002	1009	1016	1020	1023	1027	1030	1036
APR	999	1004	1010	1015	1019	1022	1026	1029	1033
MAY	1000	1008	1011	1015	1018	1020	1024	1026	1030
JUN	997	1008	1011	1014	1016	1018	1021	1024	1030
JUL	999	1008	1011	1014	1016	1018	1021	1023	1032
AUG	1001	1007	1010	1014	1016	1018	1020	1022	1029
SEP	1000	1007	1009	1013	1015	1017	1019	1021	1025
OCT	999	1006	1010	1015	1017	1019	1023	1025	1033
NOV	996	1002	1010	1016	1019	1022	1026	1029	1034
DEC	995	1002	1009	1016	1020	1023	1028	1032	1037